

# **ICL AMERICA LTD.**

QUALITY RUBBER PRODUCTS  
**CONVEYOR BELT**





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Nylon / Nylon Conveyor Belt  
Polyester / Nylon Conveyor Belt

NN (Nylon/Nylon) Fabric Belt:

- Add the total cover thicknesses to obtain the approximate overall belt gauge.
- Troughability and load support can fluctuate with cover thickness and cover compounds.
- The Step Splice method is recommended on the above belt types for hot and cold vulcanized splices.
- Contact your service representative for recommendations on mechanical splices.



NN (Nylon/Nylon) Fabric Belt

Fabric Type	NN135		NN160		NN200		NN250		NN300			NN400				NN500			
Number of Plies-rating	2-150	2-180	3-270	2-220	3-330	2-250	3-375	4-500	2-300	3-450	4-600	2-400	3-600	4-800	5-1000	2-500	3-750	4-1000	5-1250
Max. Tension Rating(piw)	150	180	270	220	330	250	375	500	300	450	600	400	600	800	1000	500	750	1000	1250
Carcass Gauge	0.068	.070	0.105	0.090	0.135	0.094	0.141	0.188	0.126	0.189	0.252	0.134	0.201	0.268	0.335	0.166	0.249	0.332	0.415
Min. Width for Troughing (in):	Min. Width for Troughing (in):																		
20 degree idlers	14	14	20	18	20	16	20	30	18	24	30	20	30	30	36	24	30	36	42
35 degree idlers	18	18	24	20	24	20	24	30	24	30	36	24	30	36	42	30	36	42	48
45 degree idlers	18	20	30	24	30	24	30	36	30	36	42	30	36	42	48	36	42	48	54
Max. Width (in) for Load Support Material Weight:	Max. Width (in) for Load Support Material Weight:																		
0 – 40 lbs./ft3	24	36	42	42	54	48	60	72	54	60	84	60	72	96	96	60	72	96	96
41 – 80 lbs./ft3	18	30	36	36	48	42	54	60	48	60	72	54	60	84	96	60	60	84	96
81 – 120 lbs./ft3	18	24	30	30	42	36	48	60	42	54	60	48	54	84	84	54	60	72	84
Over 120 lbs./ft3	-	-	24	24	36	30	42	54	36	48	54	42	48	72	84	48	54	60	72
Minimum Pulley Diameters (in):	Minimum Pulley Diameters (in):																		
81-100% of tension rating	12	14	16	16	18	16	20	26	18	22	28	20	24	28	36	20	24	28	40
61 – 80% of tension rating	10	12	14	14	16	14	18	24	16	18	24	18	20	24	30	18	20	24	36
Below 61% of tension rating	8	10	12	12	14	12	16	20	14	16	20	16	18	20	28	16	18	20	28

EP (Polyester/Nylon) Fabric Belt:

- Add the total cover thicknesses to the carcass gauge to obtain the approximate overall belt gauge.
- Troughability and load support can fluctuate with cover thickness and cover compounds.
- The Step Splice method is recommended on the above belt types for hot and cold vulcanized splices.
- Contact your service representative for recommendations on mechanical splices.

EP (Polyester/Nylon) Fabric Belt

Fabric Type	EP135	EP160		EP200			EP250			EP350			EP400				EP500			
Number of Plies-rating	2-150	2-180	3-270	2-220	3-330	4-440	2-250	3-375	4-500	2-400	3-600	4-800	2-450	3-675	4-900	5-1150	2-600	3-900	4-1200	5-1500
Max. Tension Rating-PIW	150	180	270	220	330	440	250	375	500	400	600	800	450	675	900	1150	600	900	1200	1500
Carcass Gauge (in)	0.068	0.078	0.117	0.094	0.141	0.188	0.102	0.153	0.204	0.134	0.201	0.268	0.174	0.261	0.388	0.435	0.220	0.330	0.440	0.550
Min. Width for Troughing (in):	Min. Width for Troughing (in):																			
20 degree idlers	14	14	20	18	20	24	16	20	30	18	24	30	24	30	36	42	30	30	36	42
35 degree idlers	18	18	24	20	24	30	20	24	30	24	30	36	30	36	42	48	30	36	42	48
45 degree idlers	20	20	30	24	30	36	24	30	36	30	36	42	36	42	48	54	36	42	48	54
Max. Width (in) for Load Support Material Weight:	Max. Width (in) for Load Support Material Weight:																			
0 – 40 lbs./ft3	36	36	42	42	54	72	48	60	72	54	60	84	72	72	96	96	72	84	96	96
41 – 80 lbs./ft3	30	30	36	36	48	60	42	54	60	48	60	72	60	60	84	96	60	72	84	96
81 – 120 lbs./ft3	24	24	30	30	42	54	36	48	60	42	54	60	54	5460	72	84	54	60	72	84
Over 120 lbs./ft3	-	-	24	24	36	48	30	42	54	36	48	54	48	54	72	72	48	54	60	72
Minimum Pulley Diameters (in):	Minimum Pulley Diameters (in):																			
81-100% of tension rating	14	14	16	16	18	26	16	20	26	18	22	28	20	24	28	40	20	30	36	48
61 – 80% of tension rating	12	12	14	14	16	20	14	18	24	16	18	24	18	20	24	36	18	24	30	36
Below 61% of tension rating	10	10	12	12	14	18	12	16	20	14	16	20	16	18	20	30	16	20	24	30

High Abrasion Resistant  
Conveyor Belting - HARK

General Properties

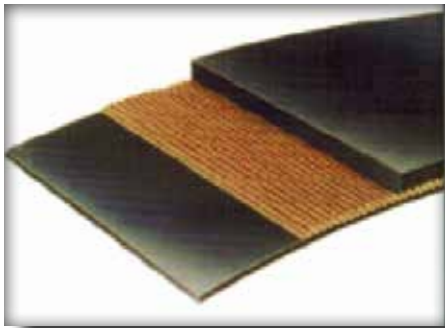
- Impact Resistant
- Cut, Gouge, and Tear Resistant
- Minimal Stretch
- Superior Lace Retention
- High Cover Adhesion
- Excellent Load Support
- Outstanding Durability

Industries:

Quarries, Log Handling, Cement Industry, Recycling, Auto Shredding, Heavy Metal Scrap, Mining, Construction Industry.

Applications:

Large Stone, Heavy Ore, Bucket Elevators, Cooper Ore, Feeders Under Rock Crushers, Primary Crushers, Magnetic Separators.



"I - Warp"

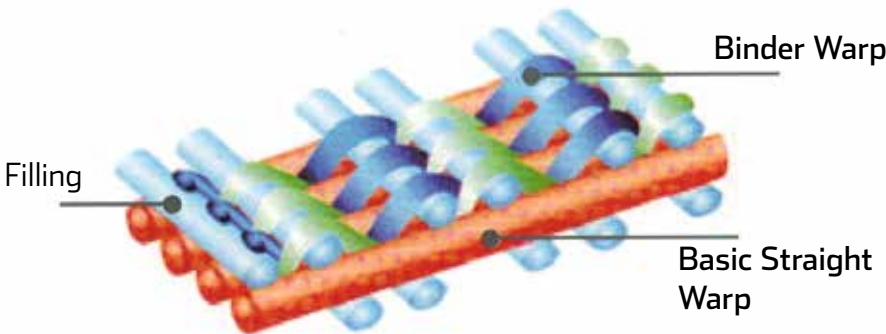
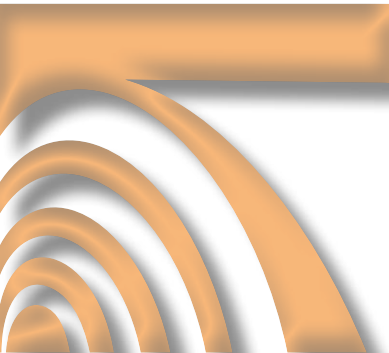


"I - Warp 2"

"I-Warp" Belting Specifications	
Cover Gauge	1/4" x 1/8"
Belt Carcass Gauge	0.1295
Working Tension Rating	440 PIW
Construction Warp	Polyester
Construction Weft Fill	Nylon
Cover Tensile Strength	Min. 2600 PSI
Cover Elongation	Min 450%
Cover Hardness	63 +-3 (Shore A)
Min. Pulley Diameter	12"
Temperature Range	-40°C - 60°C -40°F - 140°F

"I-Warp 2" Belting Specifications	
Cover Gauge	3/8" x 1/8"
Belt Carcass Gauge	0.1295
Working Tension Rating	880 PIW
Construction Warp	Polyester
Construction Weft Fill	Nylon
Cover Tensile Strength	Min. 2600 PSI
Cover Elongation	Min 450%
Cover Hardness	63 +-3 (Shore A)
Min. Pulley Diameter	16"
Temperature Range	-40°C - 60°C -40°F - 140°F

Telephone: (516) 792-3674, 75 , 76, 77  
Email: sales@iclamerica.com  
Customer Service: inside@iclamerica.com



Straight Warp 1 ply  
Straight Warp 2 ply

Fabric Type	Single Ply					Dual Ply			
	SW315	SW400	SW630	SW800	SW1000	2-SW400	2-SW630	2-SW800	2-SW1000
Number of Plies-rating	1-185	1-220	1-330	1-440	1-550	2-440	2-660	2-880	2-1100
Max. Tension Rating-PIW	185	220	330	440	550	440	660	880	1100
Carcass Gauge (in)	0.090	0.100	0.134	0.156	0.188	0.200	0.268	0.204	0.376
Min. Width for Troughing (in)	Min. Width for Troughing (in)								
20 degree idlers	14	14	20	24	24	24	24	30	36
35 degree idlers	18	18	24	30	30	30	30	36	42
45 degree idlers	20	20	30	36	36	36	36	42	48
Max. Width (in) for Load Support Material Weight:	Max. Width (in) for Load Support Material Weight:								
0 - 40 lbs./ft3	42	48	60	72	72	72	96	96	96
41 - 80 lbs./ft3	36	42	54	60	60	60	84	96	96
81 - 120 lbs./ft3	30	36	48	54	60	54	72	84	84
Over 120 lbs./ft3	24	30	42	48	54	48	72	84	84
Minimum Pulley Diameters (in)	Minimum Pulley Diameters (in)								
81-100% of tension rating	14	14	18	20	20	24	30	36	36
61 - 80% of tension rating	12	12	16	18	18	20	24	30	30
Below 61% of tension rating	10	10	14	16	16	18	20	24	24

Cover Rubber Grade

Cover Grade	Tensile Strength Min (Mpa)	Elongation Min (%)	Abrasion Loss (mm²)
DIN-W	18	450	90
DIN-Y	20	450	110
GRADE 1	17	450	120
GRADE 2	14	400	170
GRADE 1 HARK	18	450	90
MOR	12	300	300
SOR	15	300	200
Fabric Type			
NN	Nylon/Nylon		
EP	Polyester/Nylon		
SW	Straight Warp		
Breaker Fabric	Steel Mesh		



- Conveyor belt is designed for the ultimate resistance to abrasion and recommended for transporting abrasive materials. Equivalent to DIN-W and AS-A grade with less than 90 cm² abrasion loss. Conveyor belt is developed to assure you the longest belt lifetime and suitable for conveying glass, cullet, granite, trap rock, and other abrasive material.
- The Combination of polyester in warp and nylon in filling provides technically low-stretch, high impact resistance.

# Fire Resistant Compounds

Compound	Tensile Strength Min. (Mpa)	Tensile Strength Min. (psi)	Elongation Min. %	Application Grade
FR-140	15	2200	400	MSHA 30CFR 14 (USA)
FR-180	14	2100	400	MSHA 30CFR 18.65 (USA)
CAN-CSA-C	16	2200	400	CSA-C (Canada)
SCORF	14	2100	400	MSHA 30CFR 18.65 (USA)

Special Features:

- FR-140 is a specially compounded to meet the vigorous requirements of 30CFR14 for fire resistance and is approved by MSHA for use in underground coal mining. This specially formulated compound also complies with OSHA requirement for static conductivity using testing standard ASTM D257.
- M-18 is a SBR fire retardant compound meeting the old MSHA 30CFR18.65 requirement for underground mining in the U.S.A. This is no longer accepted for use in underground coal mining in the U.S.A. but is classified by ARPM as a Class FR-2 fire resistant belt.
- CSA-C is a SBR fire retardant rubber compound meeting the Canadian CSA-C requirements for fire resistance. It also provides abrasion resistance and resistance to low temperatures.
- SCORF is an ARPM Class FR-2 fire resistant belt with moderate oil resistance accepted by MSHA under 30 CFR 18.65. It is recommended for typical applications of oil treated coal or grain industries requiring fire and oil resistance as well as static conductivity.
- The conveyor belts listed with fire resistant covers meet fire performance requirements such as USMSHA, CSA, SABS, DIN and AS.
- Flame retardant conveyor belt is designed for the best service conditions for the mining and grain industries. It is suitable for mining, coal prep plants, power plants, granaries. The different rubber compounds are available to meet the requirements of each particular industry. Check each application to verify which compound is required.



# Heat Resistant Conveyor Belting - HR



### Special Features

- Excellent heat resistant and abrasion resistant cover rubber compound.
- Recommended to protect conveyor belt from surface cracking and hardening by heat.
- Specially heat-treated and dipped fabric to minimize carcass shrinkage by heat ageing.



- The Performance proven ICL Americal Ltd. heat resistant belt meets hot service applications like hot sintered ore, hot clinker, hot chemical, fertilizer and hot cement ect.
- ICL America Ltd. heat resistance conveyor belts are sutible for heat resistant applications where the temperature of material to be carried is over 140°F.

## HEAT RESISTANT CONVEYOR BELT

Temperature	Type	Compound of Cover Rubber	Temperature Range of use		Application
			Peak Material Temp. Short Time (°F)	Cont. Material Temp (°F)	
Medium Temperature	HR400	EPDM	Lump 300-400°F Fines 150-200°F	Lump 200-300°F Fines 100-200°F	Low temperatrue with abrasive material. (coke sintered products, etc.)
High Temperature	HR700	EPDM/EPM	Lump 650-700°F Fines 450-500°F	Lump 550°F Fines 300-400°F	High temperature (dried clay, cement, clinker, etc.)
Super Temperature	HR850	Premium EPM	Lump 800-850°F Fines 600-650°F	Lump 700-750°F Fines 500-550°F	Super High temperature (sintered ore, cement clinker, chemocals, etc.)

## KINDS OF BELT MATERIALS AND BELT SURFACE TEMPERATURE

Materials Carried	Lump Size	Temperatures of Carried Material	Belt Surface Temperature
Sintered Ore	25-200 mm 1-8 in	390-750 °F	270-300 °F
Return of Sintered Ore	below 10 mm 0.4 in	480 °F	300-370 °F
Coke	100-200 mm 4-8 in	160-210 °F	120-140 °F
Raw Materials	below 30 mm 1.2 in	360-410 °F	210-250 °F
Clinker	10-30 mm 0.4-1.2 in	210-410 °F	210-230 °F
Cement	Powder	210-250 °F	170-190 °F
Metal Powder	Powder	340 °F	250-270 °F
Molding Sand	Powder	390-480 °F	170-190 °F

- The surface temperature of heat resistant conveyor belt varies with the material type, belt speed, loading rate and size depending on circumstance condition.
- In order to select the proper heat resistant conveyor belt, it is necessary to consider not only the material temperature to be conveyed but also the surface temperature of conveyor belt.

- Characteristics required for heat resistant conveyor belt are as follows:
- Rubber cover and carcass should not deteriorate due to heat.
- Rubber cover and carcass should maintain durability, even at high temperatures.
- Rubber cover and carcass should maintain good adhesion form on unit even when they are exposed to high temperatures.



Cover Rubber Grade

Type	Cover Rubber				Special Features
	Min Tensile Strength		Minimum Elongation	Application Grade	
	Mpa	psi			
FR-140	15	2200	400%	FR	Features fire resistance, static conductivity. Self-extinguishable rubber cover.
FR-180	14	2100	400%	FR	SBR fire resistant cover rubber meeting ARPM FR Class 2 requirements.
SCORF	14	2100	400%	FR/OR	Oil treated coal and grain industries requiring fire & oil resistance, and electrical resistance lower than 300 Mega Ohm.

- FR-140 grade is specially compounded Neoprene over rubber for the underground operation requiring fire resistance, static conductivity. The important characteristic is self-extinguishable cover rubber.
- FR-180 is SBR fire resistant cover rubber meeting ARPM FR Class 2. It provides highly resistance to wear and cold resistance.
- SCORF grade is fire resistant with medium oil resistance and adheres to ARPM FR Class 2. It is recommended for typical applications like oil treated coal and grain industries requiring fire & oil resistance, and static conductivity with electric resistance lower than 300 Mega Ohm.

- ICL America Ltd. conveyor belt supplies fire resistant covers which meet the fire performance requirements of several regulations such as USMSHA, SABS, DIN, AS etc.

Standard PVC Product Range

Type	Warp	Weft	Nominal Belt Thickness	Nominal Belt Weight	Minimum High Tension Drum Diameter	Minimum Low Tension Drum Diameter
(lbs/in)	(kN/m)	(kN/m)	(mm)	(kg/m2)	(mm)	(mm)
250	44	25	6.5	9.0	250	225
350	63	26	8.0	10.5	400	315
450	80	35	8.5	11.0	500	355
500	87	35	9.0	11.2	500	355
600	100	35	9.3	12.0	630	400
650	114	35	9.5	12.2	630	400
800	140	35	11.5	14.0	750	450
900	160	42	12.0	15.0	800	600
1,000	180	45	13.0	16.2	800	600
1,200	210	45	14.0	18.0	1000	750
1,500	262	45	15.5	19.5	1250	800

Product Range Details:

- Width - 750 mm to 1830 mm (30" to 72")
- Type - 250 PIW to 1500 PIW (610 kN/m to 2625 kN/m)
- Covers - FRAS PVC (Up to 3.0 mm)
- Special Covers - Available for abrasion, heat and oil resistance.
- Roll Length - As required by customer subject to shipment restrictions by road and sea.
- Color - Black, however special colored PVC covers can be made on request.
- Special Weave Constructions - Load impact bearing, high-tear, and rip resistant available.

Product Approvals & Certifications:

India

- ISO 9001:2008 Certified.
- Directorate General Of Mines Saftey (DGMS).

United States Of America

- Static conductive to OSHA 29 CFR.
- Fire resistant to ARPM FR Class 2.
- Mine Safety and Health Administration.

Canada

- Canadian Standards Authority as per CSA.

- Flame retardant conveyor belt is designed for the best service conditions of coal mining industries.
- It is suitable for mining, power plant, electric utilities, coal cleaning plants.
- Different rubber compounds are available in accordance with the needed requirements.

Oil Resistant Conveyor Belting  
Heat & Oil Resistant Conveyor Belt

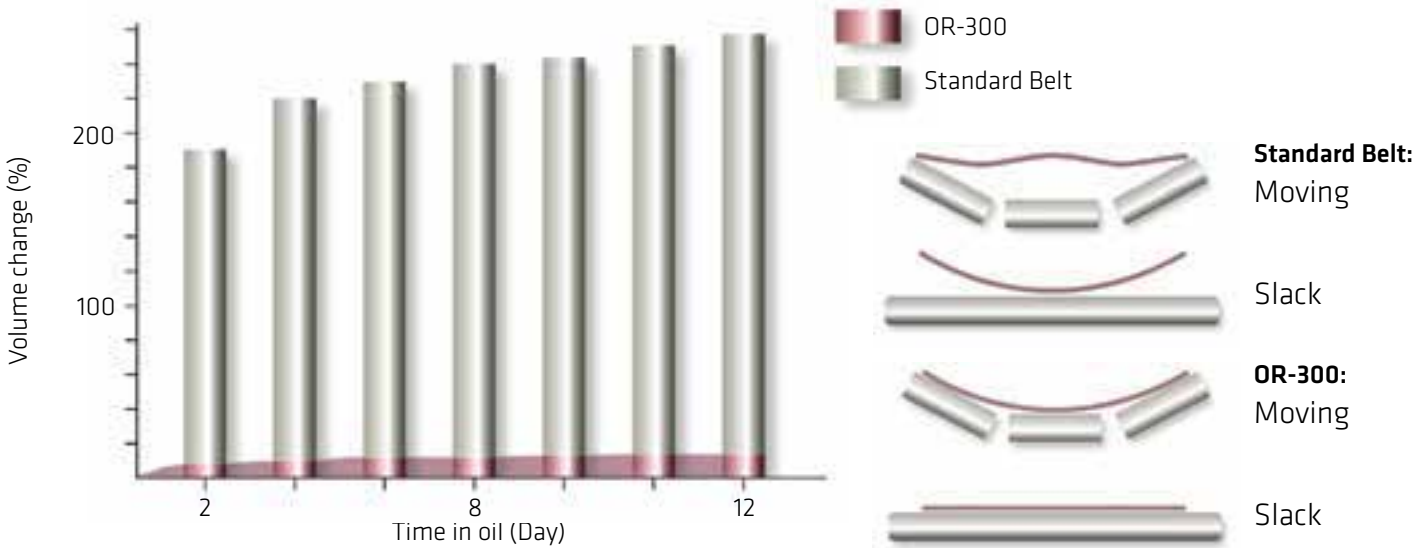


Cover Rubber Grade

Type	Cover Rubber				Special Features
	Min. Tensile Strength		Minimum Elongation	Volume Change (ASTM #3 Oil)	
	Mpa	psi			
OR-100	14	2000	450%	Max 150	Wood chip, linseed, cottonseed, corn kernels, whole soybeans, static conductivity and moderate oil resistance.
OR-200	12	1700	500%	Max 90	Oil treated materials and for carrying oily metal turnings and shavings, crushed soybeans, animal or vegetable fats.
OR-300	16	2400	500%	Max 20	Oily metal parts, crushed soybeans, automatic hydrocarbons (ie. benzol, toluene and petroleum based oils.
HTN/HOT	12	1700	500%	Max 60	Hot asphalt, coke whafs, and other oil & heat resistant applications.

\* Oil resistance (volume change) and immersion condition : 70°C x 96Hr

OR-300 Volume Change

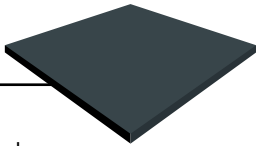


Special Features

- OR-300 grade has excellent resistance to the toughest oil applications such as oil-treated coal, petroleum based oils.
  - OR-200 grade has superior oil resistance to various kinds of animal and vegetable oils with severe cold temperature up to 45°C (50°F).
  - OR-100 grade is good for Moderate Oil Resistant operations like wood chips, linseed, cottonseed and whole soybeans where static conductivity is needed.
  - HTN/HOT grade is recommended for conveying hot asphalt with material temperature up to max 175°C (350°F, in normal conditions) where both oil & heat resistance are required.
- The rubber cover is especially compounded for the applications requiring resistance to oils.
  - It has outstanding abrasion, ozone, and weather resistance.
  - Oil resistant conveyor belt is recommended for the conveyor lines that causes swelling and sponginess due to oils.

**Neoprene Sheet**  
Polymer: Chloroprene (CR)

ASTM D2000 BC / MIL-R-3065 SC



**General Properties**

- Good weathering characteristics
- Moderate resistance to petroleum-based fluids
- Good physical properties

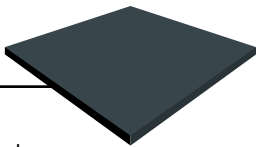
**Applications**

Excellent for gasketing, sound absorption & sealing where moderate oil & gasoline resistance is needed.

DUROMETER Shore A	Tensile Strength		Elongation	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm <sup>2</sup>		Lbs/ft <sup>2</sup>	Kg/m <sup>2</sup>	°F	°C
+/- 5							
40	850	60	450	0.90	4.40	-20°F to +190°F	-28°C to +87°C
60	1,000	70	400	0.94	4.60		
70	1,000	70	300	0.94	4.60		
80	1,000	70	200	1.0	4.90		

**Nitrile Sheet (BUNA-N, NBR)**  
Polymer: Nitrile-Butadiene Rubber

ASTM 2000 BF



**General Properties**

- Excellent resistance to petroleum-based fluids
- Good physical properties

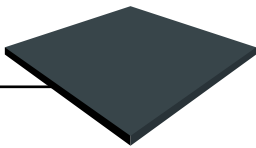
**Applications**

Excellent for gasketing, sound absorption & sealing where oil & gasoline resistance is needed.

DUROMETER Shore A	Tensile Strength		Elongation	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm <sup>2</sup>		Lbs/ft <sup>2</sup>	Kg/m <sup>2</sup>	°F	°C
+/- 5							
60	700	50	300	0.98	4.80	-30°F to +200°F	-34°C to +93°C

**EPDM Sheet**  
Polymer: Ethylene-Propylene-Diene-Monomer

ASTM D2000 BA/ MIL-R3065 RS



**General Properties**

- Excellent ozone, chemical and aging resistance
- Good physical properties
- Higher temperature resistance

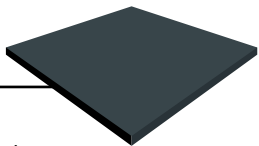
**Applications**

Direct sunlight & high temperature applications, in addition to its water & steam resistance it offers good resistance to alkaloids, acids and oxygenated solvents.

DUROMETER Shore A	Tensile Strength		Elongation	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm <sup>2</sup>		Lbs/ft <sup>2</sup>	Kg/m <sup>2</sup>	°F	°C
+/- 5							
60	800	55	350	0.82	4.00	-20°F to +400°F	-28°C to +204°C

**SBR Sheet**  
Polymer: Styrene-Butadiene-Rubber

ASTM D2000 AA



**General Properties**

- Good abrasion resistance
- Moderate oil resistance
- Durability
- Low shrinkage

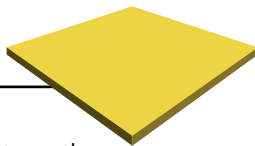
**Applications**

Good abrasion resistance, moderate oil resistance and cushion/impact resistance. Excellent gasketing material used for its durability, reduced shrinkage qualities and increased flexibility.

DUROMETER Shore A	Tensile Strength		Elongation	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm <sup>2</sup>		Lbs/ft <sup>2</sup>	Kg/m <sup>2</sup>	°F	°C
+/- 5							
60	1,000	70	350	0.96	4.70	-25°F to +175°F	-30°C to +80°C
70	600	40	350	1.00	4.90	-20°F to +190°F	-28°C to +87°C
80	400	32	200	1.15	5.56		

**GUM Sheet (Tan Pure)**  
Polymer: Isoprene Rubber, NR

ASTM D2000 AA



**General Properties**

- Excellent abrasion-resistance
- Excellent physical properties
- Good resistance to most acids
- Good resilience

**Applications**

Good gasketing material with superior tensile strength, elongation and abrasion resistance. The excellent physical properties offer good low temperature flexibility, compression set and adhesion to most metals.

DUROMETER Shore A	Tensile Strength		Elongation	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm <sup>2</sup>		Lbs/ft <sup>2</sup>	Kg/m <sup>2</sup>	°F	°C
+/- 5							
40 (Floating)	2,000	140	600	0.64	3.10	-20°F to +160°F	-28°C to +71°C
60	2,500	175	700	0.72	3.50		

**Skirtboard Rubber (Narrow Skirtboard Width: 3"-12")**  
Polymer: Styrene-Butadiene & Isoprene rubber

ASTM SBR/NR



**General Properties**

- Excellent weather resistance
- Excellent abrasion resistance

**Applications**

Conveyor skirting, chute-liner, blast curtains, mounting pads & chassis padding.

DUROMETER Shore A	Tensile Strength		Elongation	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm <sup>2</sup>		Lbs/ft <sup>2</sup>	Kg/m <sup>2</sup>	°F	°C
+/- 5							
60	1000	70	350	0.96	4.70	-25°F to +170°F	-30°C to +80°C

# Lightweight Solid Woven PVC Product Range

The ICL America Ltd. Lightweight PVC product range is based on performance engineered fabrics in 120 lb, 150 lb, and 200 lb. working tensions. Each fabric has been specially designed to offer low stretch, long life, and excellent mechanical fastener holding characteristics. Beyond the robust design of our fabrics, we offer a wide range of PVC compounds, each value engineered to deliver economical performance in a variety of applications. Our most common PVC compound formulations are as follows:

- Standard PVC – Economical performance in most applications.
  - Most products are black.
- MOR PVC – PVC with “Moderate Oil Resistance”.
  - For applications where some oils may be present.
  - Both food and non-food applications.
  - Available in standard black and white colors, with other colors available as a special order.
  - White products meet FDA requirements for use in the food industry.
  - FDA products are commonly use in processing fruits and vegetables where there is limited exposure to oils and fats.
- SOR – PVC with “Super Oil Resistance”.
  - Available in standard white color, with other colors available as a special order.
  - White products meet FDA requirements for use in the food industry.
  - SOR products are commonly used in meat, poultry, fish, and nut applications where there are high concentrations of oils and fats.
- RVA - Rubber Vinyl Alloy
  - Our newest innovation that combines the best properties of thermoplastic PVC and oil resistant rubber. The resulting properties are as follows:
    - Increased abrasion resistance.
    - Improved coefficient of friction.
    - Are able to be embossed using standard thermoplastic profile patterns.
    - Can to be fabricated using traditional thermoplastic equipment and procedures.

Beyond the tension bearing members and PVC coatings, we also offer many surface configurations that cover most lightweight applications. Our standard surface impressions are as follows:

- Smooth Cover
- Brushed bottom surface for reduced frictional drag, lower power consumption, and reduced heat generation.
- Friction bottom surface for ease of fabrication of v-guides or, in the case of FDA belting, the ability to maintain sanitary standards.
- Molded Roughtop cover impression for incline/decline applications. Our Roughtop impression is embossed which provides a straight cover impression without “bow”.
- Crescent-Top – A staggered half-moon impression for incline/decline application in wet environments where self-draining is important.



# Solid Woven PVC Product Nomenclature

Example Specification:

PVC 120 MOR C x F Black

PVC	120	MOR	C	F	Black
Polymer	Fabric	Compound	Top Cover	Bottom Cover	Color

Polymer	PVC	Thermoplastic Poly-Vinyl Chloride
	RVA	Thermoplastic Rubber/Vinyl Alloy

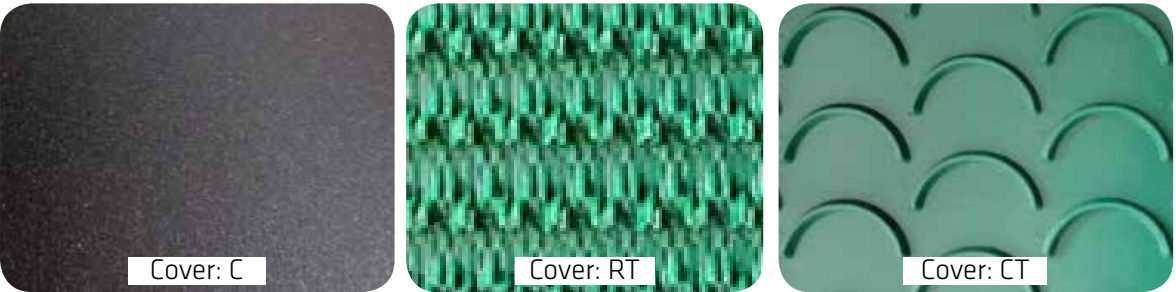
Fabric	120	Solid woven polyester fabric delivering 120 lbs <2% elongation
	150	Solid woven polyester fabric delivering 150 lbs <2% elongation
	200	Solid woven polyester fabric delivering 200 lbs <2% elongation

Compound	Std PVC	Standard PVC formulation
	MOR	PVC with Moderate Oil Resistance (MOR)
	SOR	FDA PVC with Super Oil Resistance (SOR)

Cover Surfaces	C	Smooth Cover Surface
	B	Brushed Bottom Surface
	F	Friction Bottom Surface
	RT	Embossed Roughtop Impression
	CT	Crescent-Top Pattern

Standard Colors*	Black
	White
	Tan

\* Additional Colors availible upon request.



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# Rubber Pulley Lagging



Polymer : Premium SBR

General Properties

- Good Weather resistance
- Moderate resistance to petroleum-based fluids
- Good physical properties to maintain friction
- Protects Pulleys from debris build up



Profile	Strip	Pulley	
	Large Diamond	Large Diamond	Mini Diamond
Diagonal Length	82	82	47
Diagonal Length	48	48	27
Profile Gap	11	11	6
Profile Depth	8	8	4.8
Thick-ness	15	15	8
Width	300	1500	1500
Length	50	50	50

Applications

Belting systems where debris build up on pulleys can be an issue & where slippage is a concern. Available in diamond or square patterns. These patterns ensure maximum grip on pulleys in the system for enhanced reliability. All patterns are available in many grades of sheet rubber for accommodating the demands of the belt during operation.

Lagging Size Chart

Diameter	Lagging Length Required
6"	20" long
8"	27" long
10"	33" long
12"	39" long
14"	45" long
24"	77" long
30"	96" long
36"	115" long
42"	133" long
48"	151" long
60"	187" long
72"	223" long



Rubber Lagging in Stock:

1/2" x 60" x 50' - LARGE DIAMOND with BL  
3/8" (8mm) x 60" x 50' - MINI DIAMOND with BL  
1/2" x 8" x 50' - RSTRIP Pulley Lagging

**ICL AMERICA LTD.**

# Rubber Strip Lagging

Polymer : Premium SBR

General Properties

- Good Weather resistance
- Moderate resistance to petroleum-based fluids
- Good physical properties to maintain friction
- Protects Pulleys from debris build up

Applications

Belting systems where debris build up on pulleys can be an issue & where slippage is a concern. Available in diamond or square patterns. These patterns ensure maximum grip on pulleys in the system for enhanced reliability. All patterns are available in many grades of sheet rubber for accommodating the demands of the belt during operation.

Lagging Size Chart

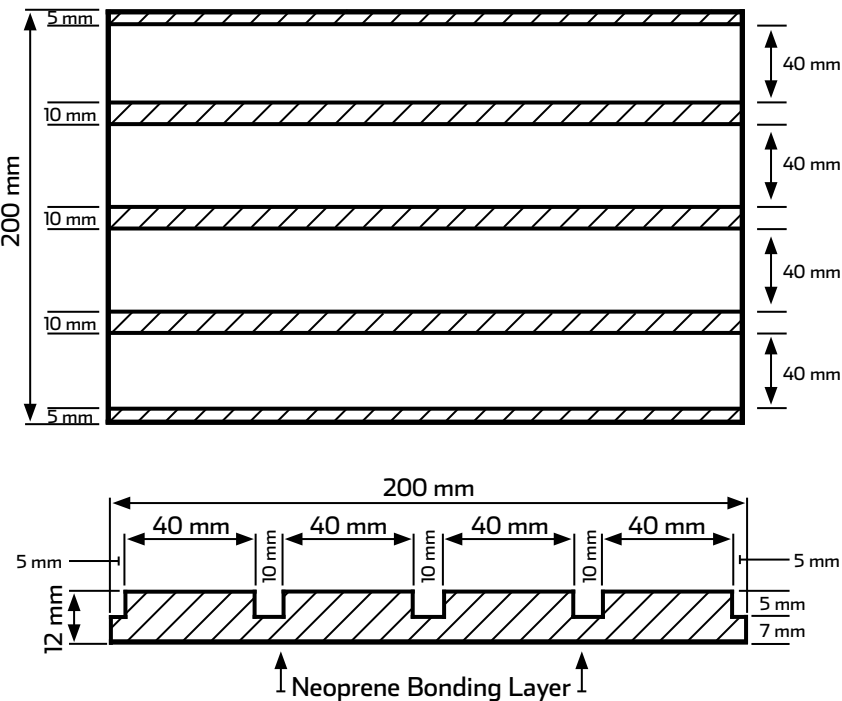
Diameter	Lagging Length Required
6"	20" long
8"	27" long
10"	33" long
12"	39" long
14"	45" long
24"	77" long
30"	96" long
36"	115" long
42"	133" long
48"	151" long
60"	187" long
72"	223" long

Rubber Strip Lagging in Stock:

1/2" x 8" x 50' - RSTRIP Pulley Lagging



Dimensions



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# White Pully Lagging



## Polymer: Natural Rubber

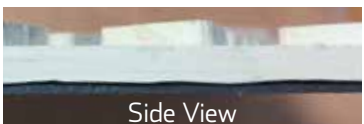
### General Properties

- Good Weather resistance
- Moderate resistance to petroleum-based fluids
- Good physical properties to maintain friction
- Protects Pulleys from debris build up

### Applications

Belting systems where debris build up on pulleys can be an issue & where slippage is a concern. The diamond pattern ensures maximum grip on pulleys in the system for enhanced reliability.

Properties	Test Method	Values	Test Method	Values
		Imperial Units		Metric
Specific Gravity	ASTM D297	1.25 +/- 0.05	DIN53508	1.25 +/- 0.05
Hardness	ASTM D2240	60 +/- 5 Shore A	DIN53505	60 +/- 5 Shore A
Tensile Strength (min)	ASTM D412	1991 PSI	DIN 53504	140 kg/cm <sup>2</sup>
Elongation at Break (min)	ASTM D412	400%	DIN 53504	400%
Compression Set (70°C/24 Hrs/25% compression) (max)	ASTM D395 Method B	40%	DIN 53517	40%
Tear Resistance (Angular min)	ASTM D624	153 lbs/in	DIN 53515	27 kg/cm
Change in properties after heat aging for 72 hrs at 70°C	ASTM D573			
Hardness (Pts)		+ 5 (max)		+ 5 (max)
Tensile Strength (%)		+ 10 / - 25		+ 10 / - 25
Elongation at Break (%)		+ 10 / - 25		+ 10 / - 25
Volume Swell at 70°C for 72 hrs.	ASTM D417			
In IRM Oil No. 1		Not Recommended		Not Recommended
In IRM Oil No. 2		Not Recommended		Not Recommended
In IRM Oil No. 3		Not Recommended		Not Recommended
Chemical Resistance				
Ozone	ASTM D1149	Fair		Fair
Dilute Acids and Bases		Not Recommended		Not Recommended
Concentrated Acids and Bases		Not Recommended		Not Recommended
Oils		Not Recommended		Not Recommended
Solvents		Not Recommended		Not Recommended
Temperature Range		- 40° to + 158°F		- 40° to + 70°C
Color & Design	White Mini-diamond with Grey Neoprene Bonding Layer			



Dimensions	Mini Diamond
Diagonal Length 1	28 mm
Diagonal Length 2	16 mm
Profile Gap	6 mm
Profile Depth	2.75 mm
Thickness	8.25 mm
Width	60 inch
Length	50 feet

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 **ICL AMERICA LTD.**

# Ceramic Pulley Lagging

## Product Details:

Ceramic pulley lagging is a combination of high quality alumina ceramic, dimpled, profiled drive segments that are molded into a base of specially formulated natural and butadiene rubber. ICL America Ltd. lagging is designed to provide complete coverage of the pulley face, with ceramic drive segments spaced equal to or wider than the belt width.

The individual lagging segments are 15" wide with a maximum of only 2" of rubber on each side of the ceramic segment extending to the pulley edge. The standard lagging is manufactured to 1/2" thickness. The individual ceramic drive segments are placed to ensure optimum performance, and to eliminate the loss of ceramic tiles from the rubber base, as is common with other ceramic lagging products. The ceramic segments measure .75" x .75" x 0.255".

### General Properties

Ceramic pulley lagging ensures continuous system operations and optimum drive traction. Ceramic lagging also effectively removes any fine material buildup from extreme operating conditions.

- Improves belt traction, eliminates slippage
- Increases belt and pulley life
- Offers exceptional wear and abrasion resistance
- Installs easily
- Minimize system downtime
- Helps lower your cost per ton for moving material

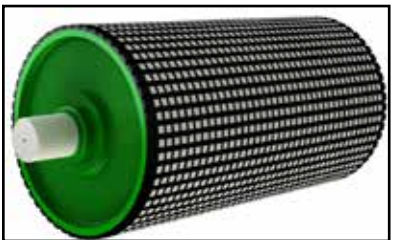
## Calculating Material Requirements:

Use the following equations to calculate the amount of Ceramic Pulley Lagging you will need for your belting system:

$$[\text{Pulley Diameter}] \times 3.142 = \text{Pulley Circumference}$$

$$\frac{[\text{Pulley Circumference}]}{15} = \text{Number of Ceramic Lagging Strips Required}$$

$$\frac{[\text{Circumference}] \times [\text{Width}]}{144} = \text{Pulley Surface area (ft}^2\text{)}$$



## Lagging Size Chart

Diameter	Lagging Length Required
6"	20" long
8"	27" long
10"	33" long
12"	39" long
14"	45" long
24"	77" long
30"	96" long
36"	115" long
42"	133" long
48"	151" long
60"	187" long
72"	223" long

### Ceramic Lagging in Stock:

- 1/2" x 15" x 33' - LONG CERAMIC LAGGING SQUARE with BL
- 1/2" x 8" x 33' - LONG CERAMIC LAGGING TRIANGULAR with BL
- 5/8" x 15" x 33' - LONG CERAMIC LAGGING SQUARE with BL
- 5/8" x 8" x 33' - LONG CERAMIC LAGGING TRIANGULAR with BL

Ceramic Pulley Lagging Technical Data	
Material	Natrual & SBR Rubber Blend
Color	Black
Rubber Tensile	17.5 Mpa
Ceramic Tensile	20 Mpa
Rubber Elongation	450%
Ceramic Hardness	>9t Moh's
Rubber Hardness	45 +/- 5
Rubber Tear Resistance	60 N/mm
Ceramic Comp. Strength	200 Mpa
Ceramic Aluminum Oxide	92%
Tile Size	3/4 x 3/4
Space between tiles	1/4"
Cutting Sipe Dimension	1/4" deep ~ 3/8" wide

# Steel Cord Rubber Belt

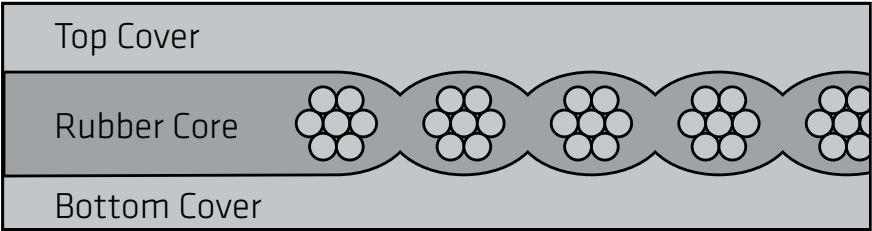
## Construction:

Steel cord belt is composed of galvanized steel cord and core rubber which have a superior adhesive property. The belts are made of a bottom cover core rubber with the steel cord and a top cover. The steel cord in the belt is made of twisted left hand and right hand strands with alternating strands in the rubber core to balance and straighten the belt. Steel cord belts have very high tensile strength, long service life, low elongation, excellent troughability, and excellent flex resistance. The belt type is excellent for carrying heavy loads, over great distances at higher speeds.

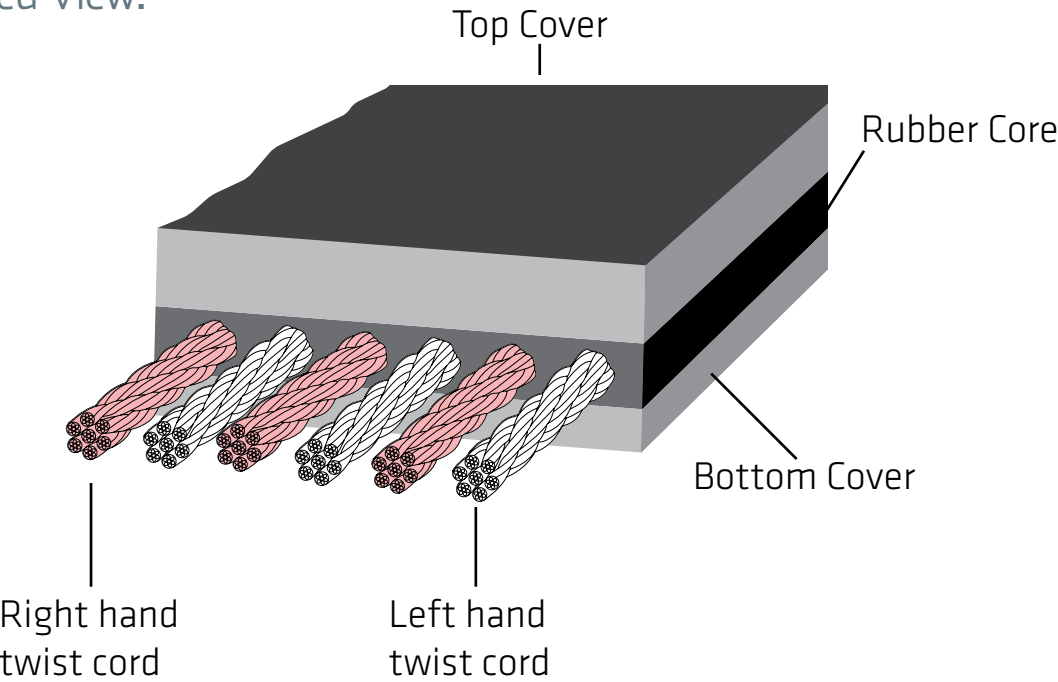
## General Properties

- Very high tension rating.
- Lower elongation reduces the length of take-up.
- Excellent adhesion between steel cord and rubber to resist flex, fatigue, and impact.
- Excellent troughability.
- Excellent for long distance, high speed carrying of materials.
- Long service life with low maintenance needed.

## Cross section:

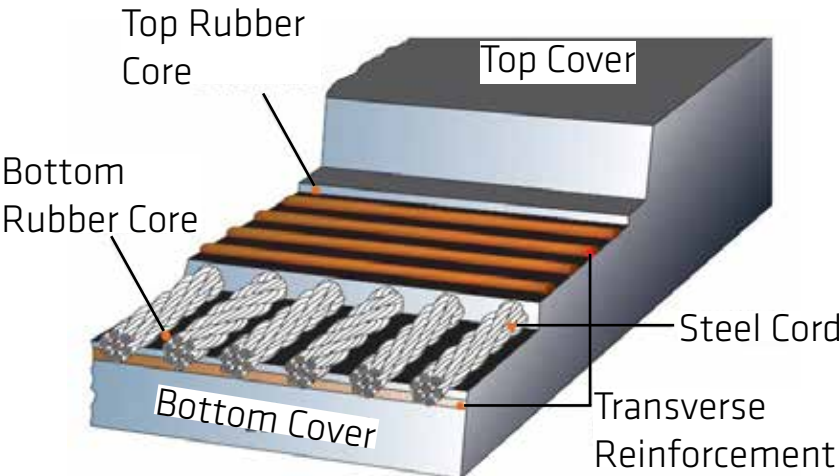


## Exploded View:



## Transverse Reinforcement

Transverse reinforcement is available on our steel cord belt. The reinforcement is available in steel for more strength or nylon for some strength and some flexibility. The reinforcement layer is available on both sides of the rubber core or on one side of the core, based on use or customer specification. The layers add protection to the core layer enhancing rip resistance, belt life, and cord protection.



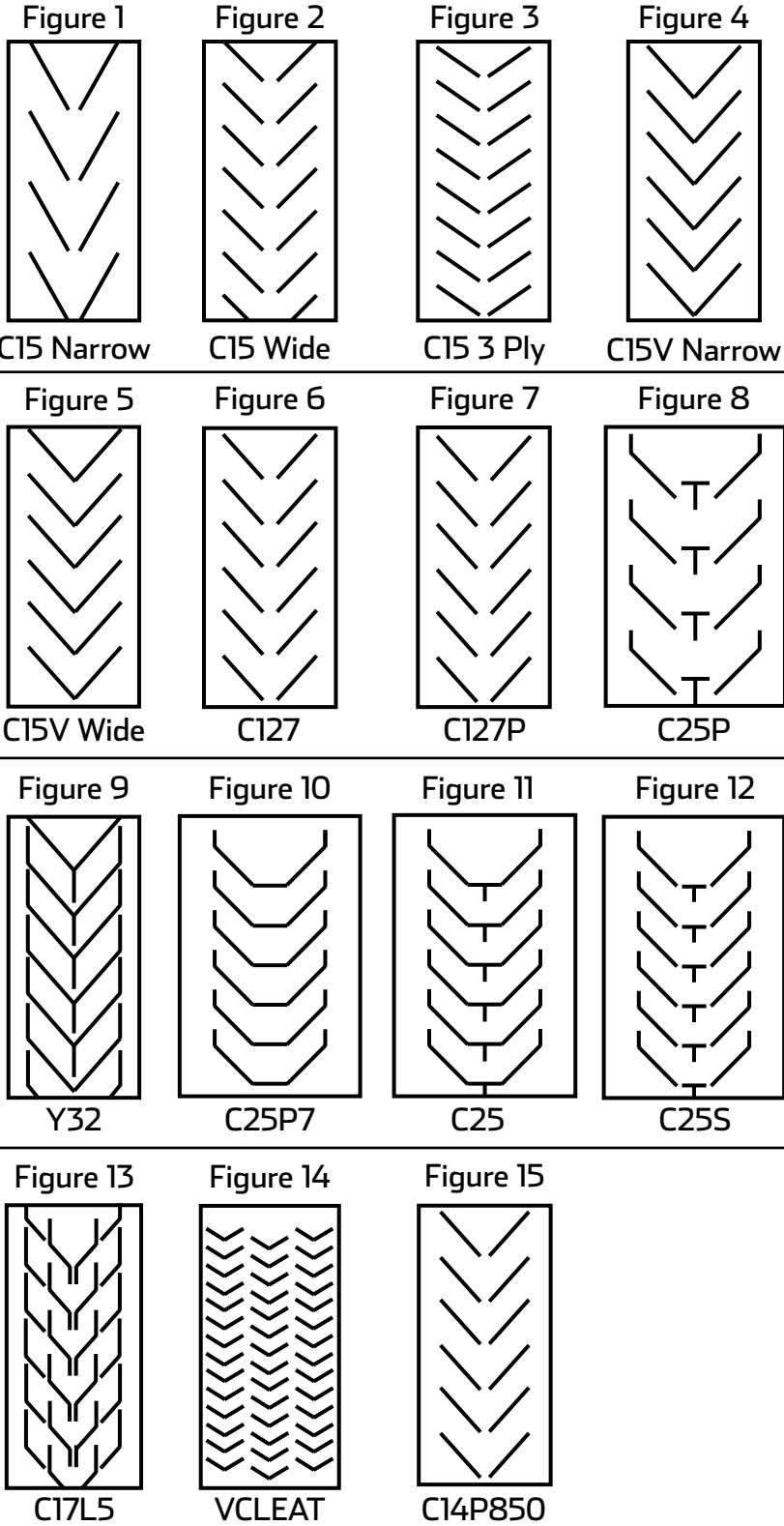
Belt Type	ST 500	ST 630	ST 800	ST 1000	ST 1250	ST 1400	ST 1600	ST 1800	ST 2000	ST 2250	ST 2500	ST 2800	ST 3150	ST 3500	ST 4000	ST 4500	ST 5000	ST 5400
Tensile Strength (N/mm)	500	630	800	1000	1250	1400	1600	1800	2000	2250	2500	2800	3150	3500	4000	4500	5000	5400
Max. Dia. of Cord (mm)	2.8	3.0	3.5	4.0	4.5	4.5	5.0	5.0	6.0	6.3	7.2	7.6	8.1	8.6	9.2	10.1	10.6	11.5
Min. Breaking Strength of Cord (KN/Cord)	5.6	7.0	8.9	13.2	16.5	18.5	21.1	23.7	26.4	29.6	41.7	46.7	52.5	58.4	66.7	80.4	89.3	103.9
Weight of Cord (g/m)	30.7	34.7	47.8	64.0	79.8	79.8	97.3	97.3	137.0	155.0	196.0	221.0	253.0	280.0	316.0	385.0	414.0	496.0
Pitch (mm)	10.0	10.0	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	15.0	16.0	16.0	17.0
Max. Working Strength of Belt (N/mm)	72	90	115	145	180	200	230	260	290	320	360	400	450	500	580	640	720	770
Min. Thickness of Cover (mm)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.5	5.5	6.0	6.5	7.0	7.5	8.0
Min. Pulley Diameter (mm)	Head & Drive	600	600	650	750	850	950	1000	1200	1200	1400	1500	1550	1700	1800	1850	2000	2400
	Tail & Take-up	500	500	500	550	700	750	800	950	950	1200	1200	1250	1350	1400	1400	1600	1900
	Bend & Snubs	350	350	400	450	500	510	600	700	700	800	900	950	1000	1050	1050	1200	1400

# V Cleat Belting

## General Properties:

A smooth belt with chevron or v cleat ribs on the surface. Good for transporting materials up to about a 30° to 40° incline. The belt is constructed from durable or softer rubber types depending on use. The cleat profiles are designed to be used on a conventional belt pulley system to ensure a smooth ride.

Figure	Pattern	B W	C W	C P	C H
1	C15 NARROW	24" - 32"	18"	10"	5/8"
2	C15 WIDE	30" - 36"	24"	10"	5/8"
3	C15 3 PLY	48"	29"	10"	5/8"
4	C15V NARROW	26"	13"	10"	5/8"
5	C15V WIDE	28"	18"	10"	5/8"
6	C127	36" - 60"	42"	15"	0.5"
7	C127P	36" - 54"	33.5"	11.5"	0.5"
8	C25P	64"	39"	21"	0.9"
9	Y32	32"	23.5"	11.5"	1.25"
10	C25P7	48"	29.5"	13"	1"
11	C25	32"	17.7"	10"	0.5"
12	C25S	19.7" - 35.4"	17.7" / 23.0"	9.8" / 13.1"	1"
13	C17	28" - 48"	21.7" - 37.4"	13.0"	.67"
14	VCLEAT	24" - 72"	-	3"	0.2"
15	CI4P850	36"	33.5"	13"	0.5"



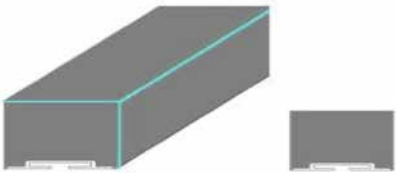
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# Impact Bars

## Polymer : UHMW

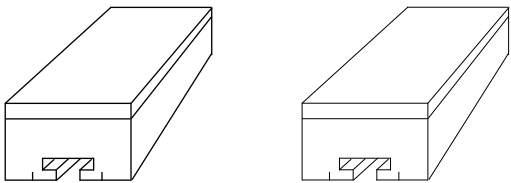
### General Properties

- High energy absorption rubber core
- Low friction polyethelene top surface
- T-track fasteners for ease of installation
- Reduces ware from impact on the system



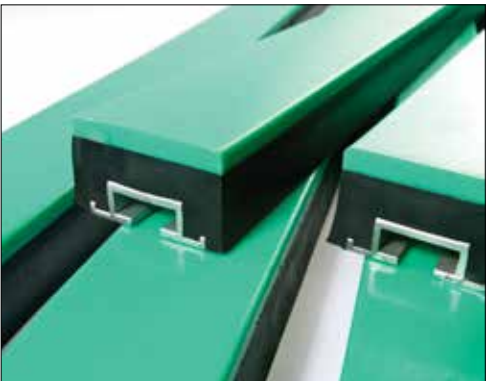
### Applications

Belting systems where impact is created from loading points. The super energy absorption rubber core reduces the impact on the system, while the polyethelene top layer allows the belt to slide along the top with reduced friction. Installation is simple with T-track channel incorporated in the bottom of the impact bar. This combination of high energy absorption and low friction and simple installation greatly improves the life of the belting system.

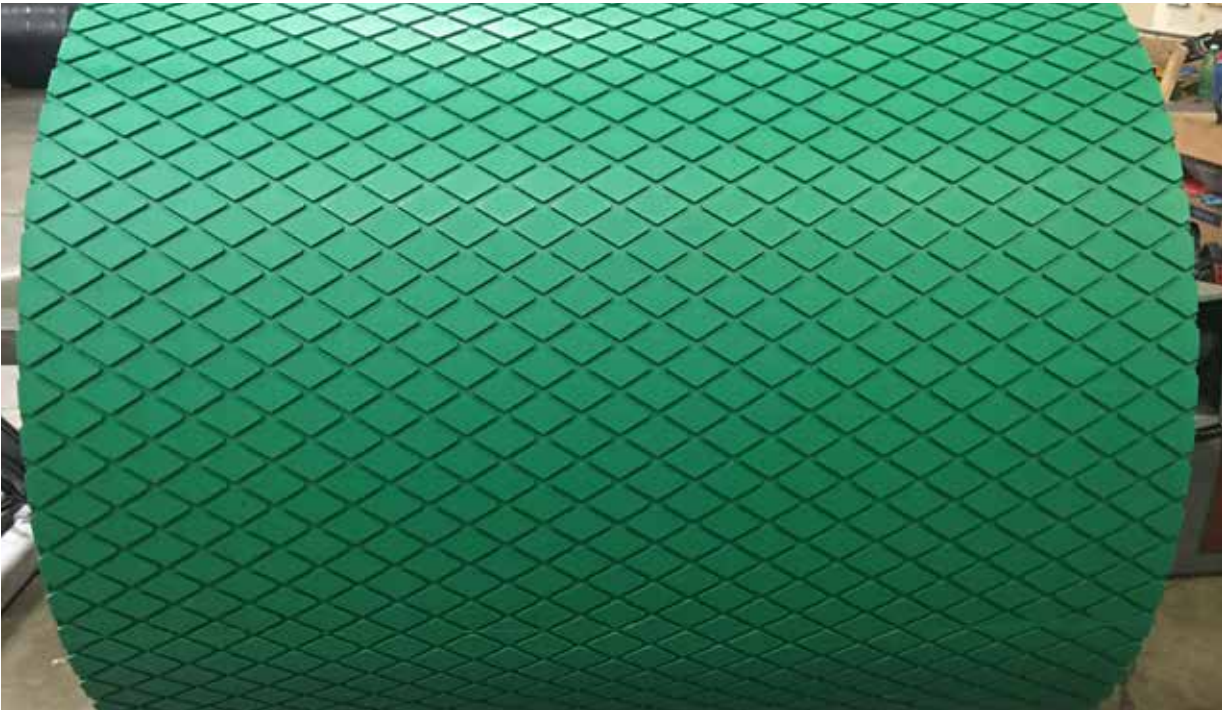


### Impact Bar Details

Impact Bars come in standard lengths of 48" or 60". Each length has a 3/8" or 1/2" or 1" top cap of the low friction Polyethelene for longer life. Custom dimension impact bars can be manufactured on special request.



Impact Bars	
UHMW Top 3/8"	4"x48"
	4"x60"
	5"x48"
	5"x60"
	6"x48"
	6"x60"
UHMW Top 1/2"	4"x48"
	4"x60"
	5"x48"
	5"x60"
	6"x48"
	6"x60"
UHMW Top 1"	5"x48"
	5"x60"
	6"x48"
	6"x60"



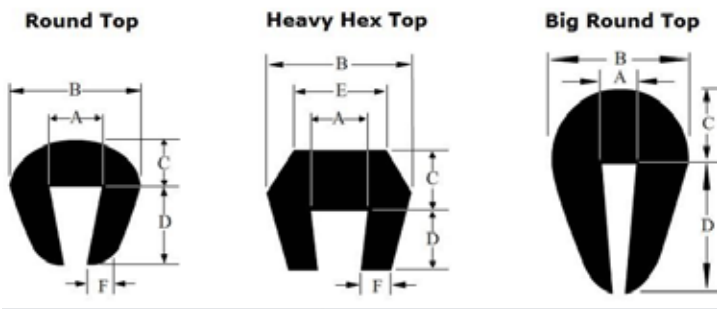
Crown Bar Rubber

General Properties

- Fits over rails of existing system
- Reduces ware from impact on the system edges
- Absorbs direct impact

Applications

Good for protecting edges or rails on anything that needs protection from impact or rubbing. This will protect the edge or rail from direct wear improving live and durability of the edge.



Standard Compounds	Black Preimum Abrasion Resistant SBR duro 75 +/- 5 Black EPDM Duro 75 +/- 5
Special Constructions	Several other compounds and/or durometer are available on made to order requests.
Standard Length Tolerances	Heavy Hex & Round Top: 100' Standard Length +5'/-0
	Big Round: 50' Standard Length +5'/-0'

SBR CI Rubber

Polymer : Styrene-Butadiene-Rubber

General Properties

- Good abbrasion resistance
- Moderate oil resistance
- Durability
- Low shrinkage

Thickness	Width	Length
1/16"	48"	50'
1/8"	48"	50'
3/16"	48"	50'
1/4"	48"	50'

Applications

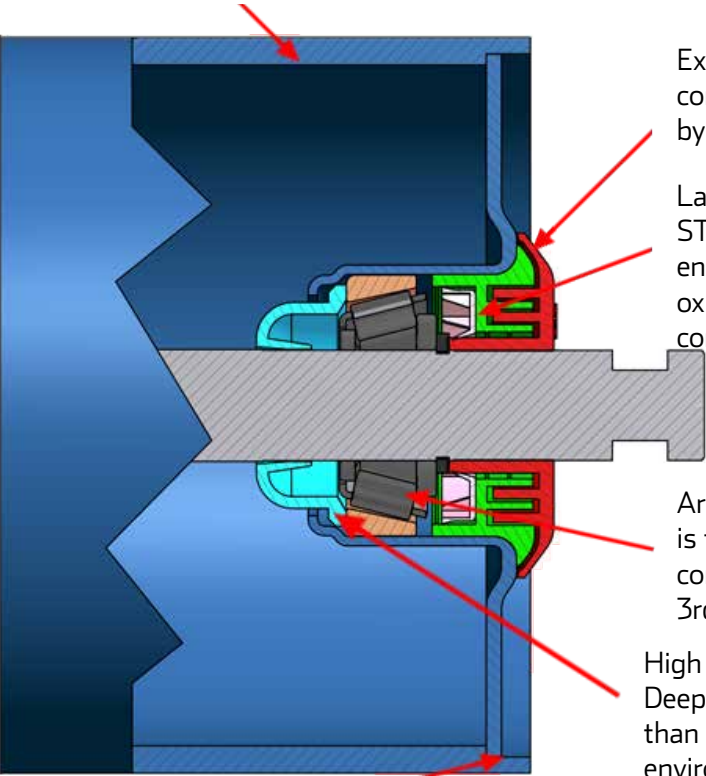
SBR (Styrene Butadiene Rubber) CI is a fabric reinforced sheet rubber that is impact and abrasion resistant. Well suited for applications with constistant stress levels. Cloth reinforcement improves stability and reduce tearing. See Material Compatibility Chart.

Thickness (In)	Ply	Lenght (Ft)	Hardness Shore A (+/- 5)	Tensile Strength	Elongation at Break	Temp. Range	Color
1/16	1	50	70	400	220	-20°F to +170°F	Black
1/8	2	50	70	400	220	-20°F to +170°F	Black
3/16	3	50	70	400	220	-20°F to +170°F	Black
1/4	4	50	70	400	220	-20°F to +170°F	Black

Applications:

- System component for conveyor structure used for moving bulk materials.
- Modify your troughing angle to maximum material transport based on belt speed and material characteristics.

Available in 1/4" wall and 7 or 9 Gg tube. ASTM 513 Specified Steel Tube with tight tolerance on Ovality, OD, and Straightness. Also, ask us about our 9 gauge light-duty product line.



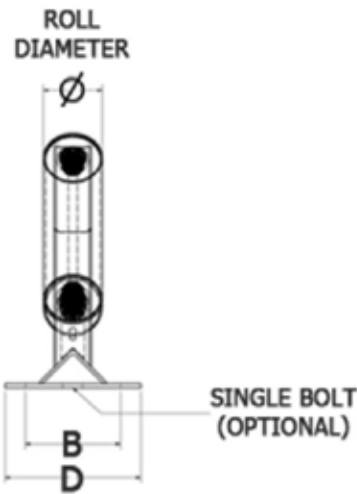
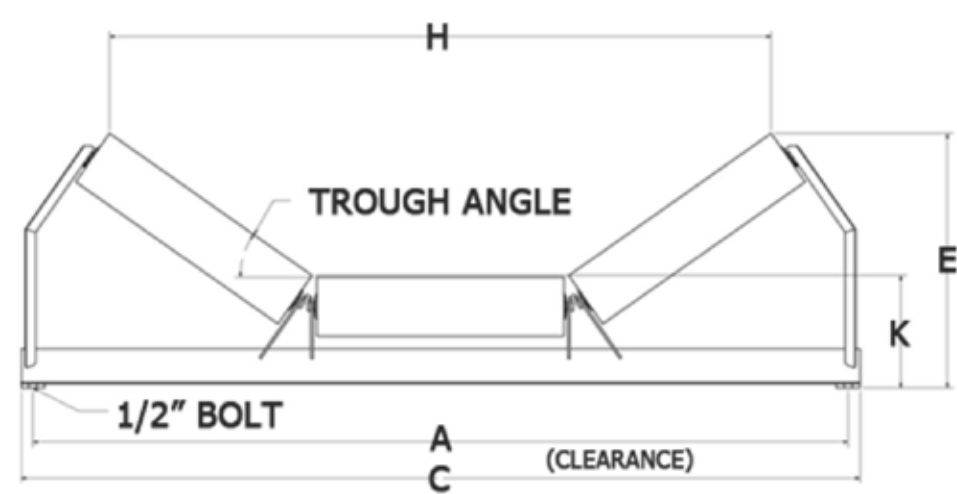
External Labyrinth Seal diverts contaminants away from bearing cavity by centrifugal force.

Labyrinth Seal Kit is packed with Renolit ST-80 grease to retard contaminants from entering bearing cavity, and also carries oxidation inhibitors to eliminate possible corrosion due to metal condensation.

Area behind the inner labyrinth seal is filled with Uniwirl 2 Grease (lithium complex) to prevent oxidation, and provide 3rd layer of protection to the bearing.

High Capacity Permanently Sealed 6306 Deep Groove Ball Bearing with 25% more than standard grease fill for harsh conveyor environment application.

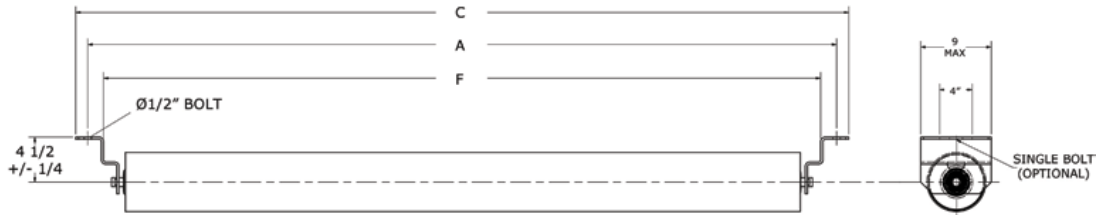
Custom Bearing Cavity design to produce idlers with minimal TIR.



Troughing Idler Dimensions:

Belt Width	Trough Angle	E Max			H Max			K +/- 1/4"		
		Dia 4	Dia 5	Dia 6	Dia 4	Dia 5	Dia 6	Dia 4	Dia 5	Dia 6
18	20	10.75	11.25	0	22.5	22.5	0	8	8.5	0
18	35	12.5	13	0	21	21	3	8	8.5	0
24	20	11.5	12	12.75	28.5	28.5	27.5	8	8.5	9
24	35	13.75	14.25	14.75	26.5	26.5	25	8	8.5	9
30	20	12.5	12.75	13.5	34.5	34.5	33.5	8	8.5	9
30	35	15	15.5	16	32	32	30.5	8	8.5	9
36	20	13.25	13.5	14.25	40.5	40.5	39.5	8	8.5	9
36	35	16.25	16.75	17.25	37.5	37.5	36	8	8.5	9
42	20	14	14.5	15.25	46.5	46.5	45.5	8.5	9	9.5
42	35	17.75	18.25	18.75	43	43	41.5	8.5	9	9.5
48	20	15	15.5	16.25	52.5	52.5	51.5	8.5	9	9.5
48	35	19	19.75	20	48.5	48.5	47	8.5	9	9.5
54	20	16.75	16.5	17.25	58.5	58.5	57.5	8.75	9.25	9.75
54	35	20.25	21	21.25	49	49	47.5	8.75	9.25	9.75
60	20	17.75	18.5	19.25	64.5	64.5	63.5	8.75	9.25	9.75
60	35	21.5	22.25	22.5	59.5	59.5	58	8.75	9.25	9.75

Return Idler Dimensions:



Belt Width	A Std Base	C Max	F Min
18	27	29 1/2	23
24	33	35 1/2	29
30	39	41 1/2	35
36	45	47 1/2	41
42	51	53 1/2	47
48	57	59 1/8	53



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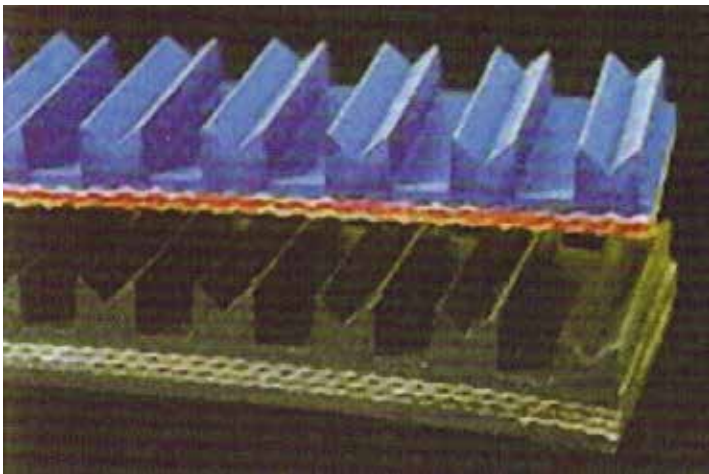
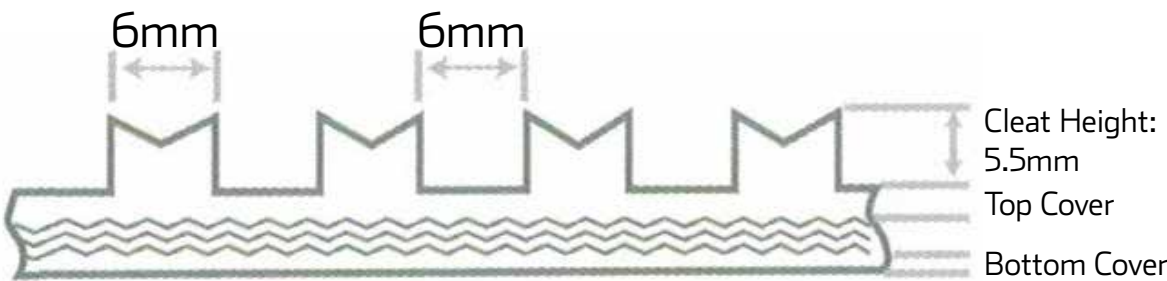
# M Shaped Conveyor Belt

## General Properties:

The cross section of the belts top cover is made in an “M” shape. The top cover is soft, durable, and will clean itself when it goes around the pulleys. This belt allows for loading or unloading on either side.

## Applications:

M-Shaped Conveyor is best suited for transporting heavier goods that are packaged in bags, boxes or, another sturdy encasement. It is also reasonable to expect good performance at gradients of 15° to 20° for this belt type.



# Black/Orange/Black Black /Grey/Black

## Product Details:

Black Orange Black Combi Rubber (Blk/Or/Blk) conveyor belt Scraper rubber provides excellent cleaning power against granulated, sticky and washed material. Constructed of excellent quality natural and synthetic rubber. Blk/Or/Blk is made of an inner layer of flexible 45 durometer rubber sandwiched between 2 layers of 60 durometer rubber. This provides the belt with excellent rigidity and excellent wear life.

Combi-Rubber Black Grey Black (Blk/Gry/Blk) is made using the same high quality natural and synthetic rubbers as the standard ICL America Ltd. products except the inner layer is slightly stiffer 50 durometer rubber that is sandwiched between 2 layers of 85 durometer rubber for an even more rugged scraper product that is designed specifically for the most extreme applications.

Blk/Or/Blk



Blk/Gry/Blk

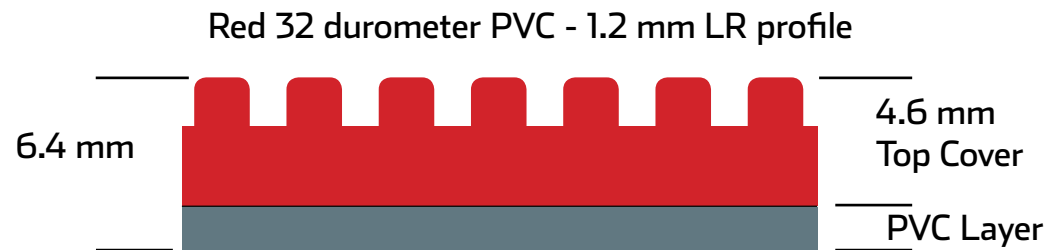


## Physical Properties:

Characteristic	TRI-DURO Blk/Or/Blk 85/50/85
Color	Black Orange Black
Hardness	60+/-5 Durometer (outside black rubber) 45+/-5 Durometer (inside grey rubber)
Tensile Strength	2900 PSI (outside black rubber) 2900 PSI (inside orange rubber)
Elongation at Break	450%
Tear Resistance	824 PSI
Abrasion Resistance	82 mm (3) at 10 N
Characteristic	TRI-DURO Blk/Gry/Blk 85/50/85
Color	Black Grey Black
Hardness	85+/-5 Durometer (outside black rubber) 50+/-5 Durometer (inside grey rubber)
Tensile Strength	2900 PSI (outside black rubber) 2900 PSI (inside grey rubber)
Elongation at Break	450%
Tear Resistance	824 PSI
Abrasion Resistance	82 mm (3) at 10 N

## Roll Sizes:

Part Number	Dimensions
Blk/Or/Blk-6	1" x 6" x 33'
Blk/Or/Blk-8	1" x 8" x 33'
Blk/Or/Blk-48	1" x 48" x 33'
Blk/Or/Blk-60	1" x 60" x 33'
Part Number	Dimensions
Blk/Gry/Blk-6	1" x 6" x 33'
Blk/Gry/Blk-8	1" x 8" x 33'
Blk/Gry/Blk-48	1" x 48" x 33'
Blk/Gry/Blk-60	1" x 60" x 33'



## General Properties:

2/10 64 LR2/B Red V is our newest innovation in premium incline conveyor belting designed for optimum performance in applications where extra gripping power is required.

### Features and Benefits:

- Our 32 durometer PVC cover compound is soft and offers optimum performance in steep incline/decline conveyor systems.
- Our 1.2 mm Longitudinal Rib cover profile enhances grip and it is self-cleaning.
- The heavy soft PVC layer under the cover impression helps to distribute loads and maximizes the performance of the LR cover profile.
- The soft durometer PVC cover offers enhances abrasion resistance for long belt life and economical operation.
- The two plies of monofilament fill polyester resists edge curl and ensures a flat cover surface for maximum product contact.
- Available in widths up to 2,000 mm. / 78.7".

### Typical Applications:

- Steep Incline/Decline Conveyor Systems
- Gapping/Metering Conveyors
- Boxboard Industry
  - o Carton Feeder Belts
  - o Folder/Gluer Belts
  - o Tape Sealing Machines



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## ICL America Ltd. Quality

Concern for quality plus continuous in-process testing and controls are the basis of excellent products that offer safe and efficient operation. All of our ICL America Ltd. production facilities comply with the provisions of ISO-9001. Further, we are highly selective in choosing our global supply partners to insure they have their own certified Quality Programs in place that can be verified by independent auditors.

- ICL America Ltd. products undergo on-going in-process quality checks in our well-equipped laboratories and shop-floors, from incoming raw materials to finished products.
- Incoming raw materials - yarns and chemicals - are tested on arrival to insure they meet the highest standards established with our global supply partners.
- Every finished roll is tested for conformity to physical standards and for consistency requirements
- Belt Inspection Reports are generated for each roll and a copy is sent with the roll to our customers.

## ICL America Ltd. Commitment to Customer Service and Support

ICL America Ltd. not only believes in making quality products, we consistently strive for total customer service and satisfaction with both pre-sale and post-sale support.

- Trained and experienced personnel assist customers in making the most cost effective belt selection, insure product availability, inventory support, and coordinate post-sale field service support.
- Our sales team alone has over 340 years of combined experience in the conveyor belting industry which is available to ICL America Ltd. customers to support their efforts in the market-place.
- We believe that every application is an opportunity to demonstrate the value of our products and support capabilities.

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# QUALITY RUBBER PRODUCTS **CONVEYOR BELT**



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