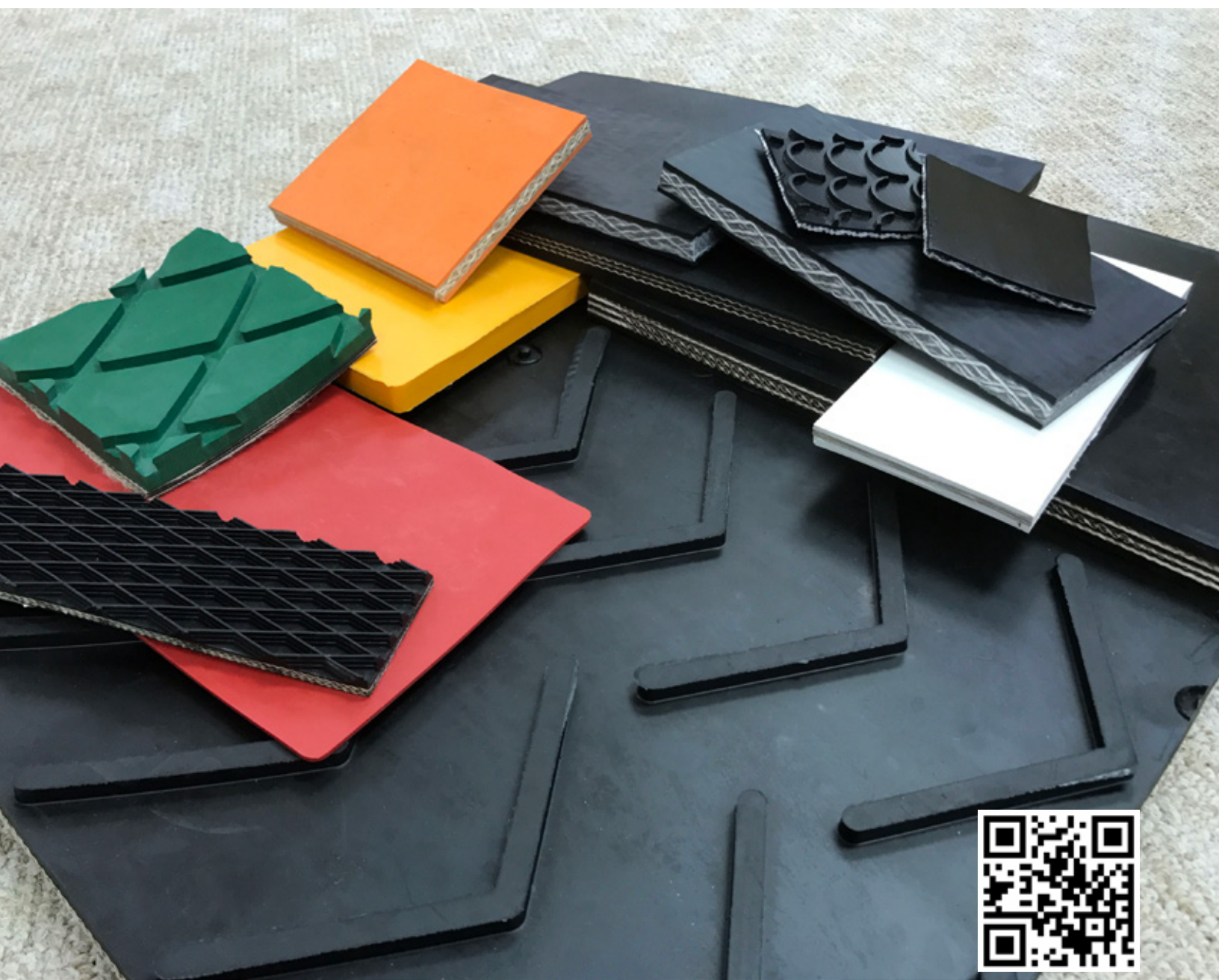




# CONVEYOR BELTING PRODUCT CATALOG



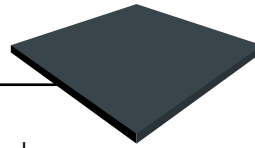
**ICL America Limited**  
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## Neoprene Sheet

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

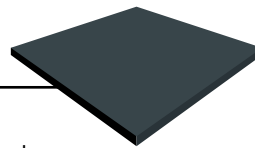
Excellent for gasketing, sound absorption & sealing where moderate oil & gasoline resistance is needed.

DUROMETER Shore A	Tensile Strength		Elongation %	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm2		Lbs/ft2	Kg/m2	°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

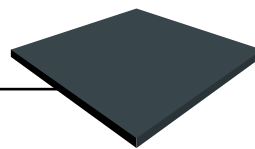
Excellent for gasketing, sound absorption & sealing where oil & gasoline resistance is needed.

DUROMETER Shore A	Tensile Strength		Elongation %	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm2		Lbs/ft2	Kg/m2	°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

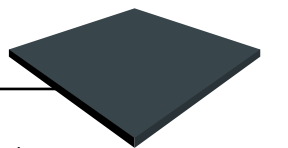
Direct sunlight & high temperature applications, in addition to its water & steam resistance it offers good resistance to alkaloids, acids and oxygenated solvents.

DUROMETER Shore A	Tensile Strength		Elongation %	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm2		Lbs/ft2	Kg/m2	°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

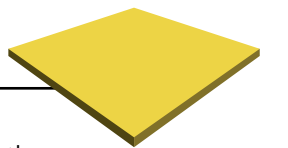
Good abrasion resistance, moderate oil resistance and cushion/impact resistance. Excellent gasketing material used for its durability, reduced shrinkage qualities and increased flexibility.

DUROMETER Shore A	Tensile Strength		Elongation %	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm2		Lbs/ft2	Kg/m2	°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

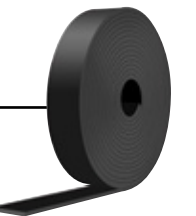
Good gasketing material with superior tensile strength, elongation and abrasion resistance. The excellent physical properties offer good low temperature flexibility, compression set and adhesion to most metals.

DUROMETER Shore A	Tensile Strength		Elongation %	Approx. Weight (1/8", 3.2mm)		Temp. Range	
	PSI	Kg/cm2		Lbs/ft2	Kg/m2	°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/cm2		Lbs/ft2	Kg/m2	°F	°C
+/- 5							
60	1000	70	350	0.96	4.70	-25°F to +170°F	-30°C to +80°C

## Nylon / Nylon Conveyor Belt

Item	Units	75	90	110	125	150	200	225	250
Min Tensile Strength	lb./in-ply	770	910	1140	1425	1710	2000	2280	2850
Working Tension Rating (Vulcanized)	lb./in-ply	75	90	110	125	150	200	225	250
Approx. Gauge/ Ply with skimcoat	in	0.034	0.035	0.045	0.047	0.053	0.063	0.067	0.083

### Special Features:

- Exceptional impact resistant to the carrying surface
- Superior fastener holding ability
- Excellent troughability and flexibility
- Smaller pulley requirements
- Great resistance to water and mildew
- This construction, utilizing all nylon, offers maximum impact and damage resistance from material and suitable for transporting a variety of materials: Ore, Crushed Stones, Grain, Sand, etc.
- Several types of carcasses using nylon/nylon fabrics with various thicknesses are available according to load conditions.

## Polyester / Nylon Conveyor Belt

Item	Units	75	90	110	125	150	200	225	250
Min Tensile Strength	lb./in-ply	770	910	1140	1425	1710	2000	2280	2850
Working Tension Rating (Vulcanized)	lb./in-ply	75	90	110	125	150	200	225	250
Approx. Gauge/ Ply with skimcoat	in	0.035	0.039	0.047	0.051	0.059	0.067	0.087	0.110

### Special Features:

- High resistance to tension
- Low elongation
- Outstanding dimensional stability
- Impact resistant
- Complete resistance to moisture and mildew

## Cover Rubber Grade

\* Abrasion Test is based on DIN 53516

Cover Grade	Tensile Strength (PSI)	Elongation Min (%)	Abrasion Loss (mm <sup>2</sup> )
GRADE 1 HARK	2600	450	90
GRADE 1	2400	450	120
GRADE 2	2000	400	170
MOR	1700	300	300
SOR	2100	300	200
Fabric Type			
NN	Nylon/Nylon		
PN	Polyester/Nylon		
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 cm<sup>2</sup> 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.

## Oil Resistant Conveyor Belting Heat & Oil Resistant Conveyor Belt

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

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

### 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.

## 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	75			90			110			125			150			200			250		
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./ft <sup>3</sup>	24	36	42	42	54	48	60	72	54	60	84	60	72	96	96	60	72	96	96		
41 - 80 lbs./ft <sup>3</sup>	18	30	36	36	48	42	54	60	48	60	72	54	60	84	96	60	60	84	96		
81 - 120 lbs./ft <sup>3</sup>	18	24	30	30	42	36	48	60	42	54	60	48	54	84	84	54	60	72	84		
Over 120 lbs./ft <sup>3</sup>	-	-	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	75			90			110			125			200			250		
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	2-500	3-750	4-1000	5-1250		
Max. Tension Rating (PIW)	150	180	270	220	330	440	250	375	500	400	600	800	500	750	1000	1250		
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	0.220	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		
35 degree idlers	18	18	24	20	24	30	20	24	30	24	30	36	30	36	42	48		
45 degree idlers	20	20	30	24	30	36	24	30	36	30	36	42	36	42	48	54		
Max. Width (in) for Load Support Material Weight:	Max. Width (in) for Load Support Material Weight:																	
0 - 40 lbs./ft <sup>3</sup>	36	36	42	42	54	72	48	60	72	54	60	84	72	72	96	96		
41 - 80 lbs./ft <sup>3</sup>	30	30	36	36	48	60	42	54	60	48	60	72	60	60	84	96		
81 - 120 lbs./ft <sup>3</sup>	24	24	30	30	42	54	36	48	60	42	54	60	54	54	72	84		
Over 120 lbs./ft <sup>3</sup>	-	-	24	24	36	48	30	42	54	36	48	54	48	54	72	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		
61 - 80% of tension rating	12	12	14	14	16	20	14	18	24	16	18	24	18	20	24	36		
Below 61% of tension rating	10	10	12	12	14	18	12	16	20	14	16	20	16	18	20	30		

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 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.



## Example Specification:

### PVC 120 MOR C x F Black

PVC	120	MOR	C	F	Black
<b>Polymer</b>	<b>Fabric</b>	<b>Compound</b>	<b>Top Cover</b>	<b>Bottom Cover</b>	<b>Color</b>

<b>Polymer</b>	PVC	Thermoplastic PVC
	RVA	Thermoplastic Rubber/PVC

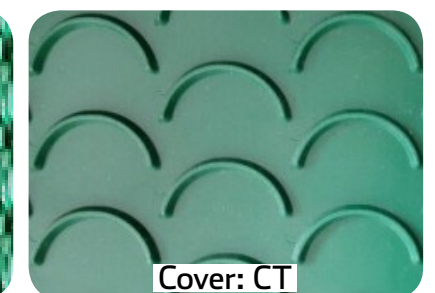
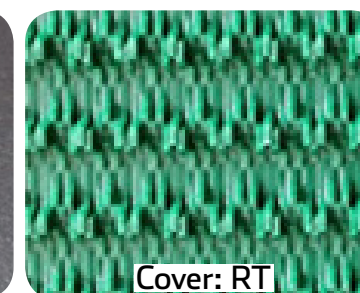
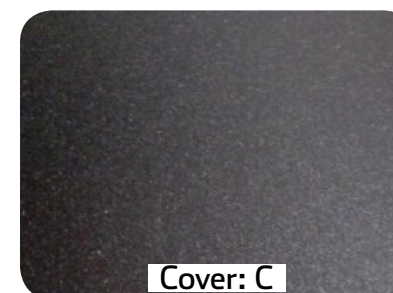
<b>Fabric</b>	120	Solid woven polyester fabric delivering 120 lbs <2% elongation
	150	Solid woven polyester fabric delivering 150 lbs <2% elongation
	200	Solid woven polyester fabric delivering 200 lbs <2% elongation

<b>Compound</b>	Std PVC	Standard PVC formulation
	MOR	PVC with Moderate Oil Resistance (MOR)
	SOR	FDA PVC with Super Oil Resistance (SOR)

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

<b>Standard Colors*</b>	Black
	White
	Tan

\* Additional Colors available upon request.



ICL America Ltd continues to refine and improve our line of high quality PVC and PU belting to insure our market reputation for quality and as specialist in light-duty material handling solutions.

ICL America Ltd offers conveyor and process belting for light and medium duty applications in all major industrial market segments. ICL America Ltd conveyor belting performs well with all type of conveyor systems - horizontal, roller supported, troughed, or incline and declines.

## Belting for the widest variety of Conveying & Processing applications:

### Conveyor & Process Belting

Our standard product range includes many different styles of belting. Beyond our standard products, we have a wide variety of available fabrics, coatings and profiles that insure we have or can make engineered solutions for virtually any application in all lightweight and medium-weight industries. In additions to our wide range of fabrics we have a broad range of coatings in PVCs, Polyurethanes and Silicones.

### Applications

Lightweight PVC & PU conveyor belting is available for the most demanding applications in these common industries:

- Food Processing
- Meat/Fish/Fruit/Vegetable
- Package Handling
- Corrugated Boxboard
- Distribution and Logistics Centers
- Textile industry
- Agriculture
- Automotive
- Tire and Rubber Products

### Conveyor & Process Belting

ICL America Ltd conveyor belting comes in a wide range of standard colors. If we don't already have the color you need, we can develop non-standard colors in a short period of time.

### FDA Belts

FDA belts are required for save operation within the food industry. We offer a full range of FDA belting to handle Meat, Poultry, Fish, Fruits, and Vegetable processing in a safe and economical manner.

The products to be conveyed determines the material of the top cover, whist the type of conveyor determines the flexibility or transverse rigidity of the belts as well as the bottom finish (smooth cover, fabric, or embossed fabric).

### Features

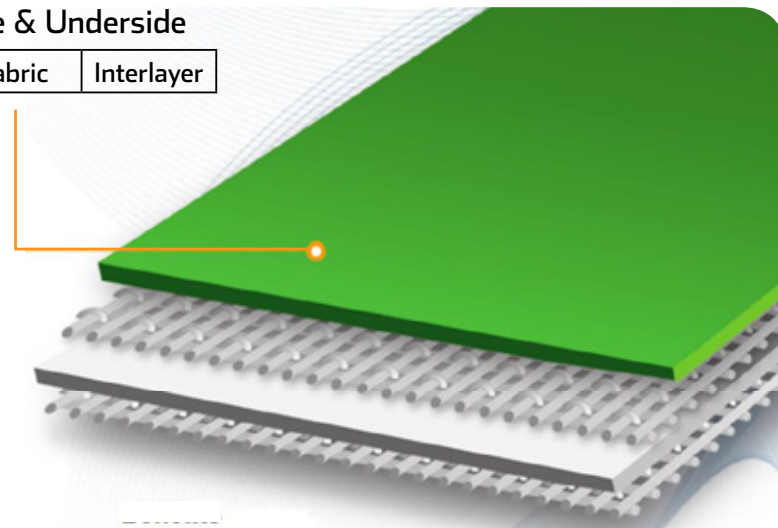
- Robust design
- Longitudinally flexible
- Dimensionally stable
- Low noise during operation
- Lightweight
- Low stretch

### Benefits

- Long life and economical operation
- Small Pulley Diameters
- Easy to track and problem free operation
- Low energy consumption
- Easy to install
- Small take-ups

### Top Surface & Underside

Cover	Fabric	Interlayer
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Conveyor Belt - PVC Belting Code	Material	Plies	OAG (mm)	Color	Tension Rating @ <1%, N/mm.	Cover Surface	Bottom Surface	Other
ICLAM 2/8 20 M/B BK V FR LN	PVC	2	2.0	Black	8	Matte	Bare	FR, LN
ICLAM 2/8 20 M/F BK V FR ISO-340 LN	PVC	2	2.0	Black	8	Matte	Friction	FR (ISO-340), LN
ICLAM 2/10 28 LR/B BK V FR AS LN	PVC	2	2.8	Black	10	LR	Bare	FR, AS, LN
ICLAM 2/10 28 LR/F BK V FR ISO-340	PVC	2	2.8	Black	10	LR	Friction	FR (ISO-340), LN
ICLAM 2/8 27 R5/B Lattice BK V LN	PVC	2	2.7	Black	8	R5	Bare	LN
ICLAM 2/10 28 LR/B GY V FR AS LN	PVC	2	2.8	Gray	10	LR	Bare	AS, LN
ICLAM 2/10 45 RT1/B BK V LN	PVC	2	4.5	Black	10	Roughtop	Bare	LN
ICLAM 2/8 20 S/B DG V LN	PVC	2	2.0	Dark Green	8	Smooth	Bare	LN
ICLAM 2/8 20 S/B DG V AS LN	PVC	2	2.0	Dark Green	8	Smooth	Bare	AS, LN
ICLAM 2/10 45 RT1/B DG V AS LN	PVC	2	4.5	Dark Green	10	Roughtop	Bare	AS, LN
ICLAM 2/10 45 RT1/B DG V LN	PVC	2	4.5	Dark Green	10	Roughtop	Bare	LN
ICLAM 2/8 25 D/F DG V LN	PVC	2	2.5	Dark Green	8	Diamond	Friction	LN
ICLAM 2/8 20 S/B AG V LN	PVC	2	2.0	Apple Green	8	Smooth	Bare	LN
ICLAM 2/10 45 RT1/B AG V LN	PVC	2	4.5	Apple Green	10	Roughtop	Bare	LN
ICLAM 4/18 40 S/D AG V FDA LN	PVC	4	4.0	Apple Green	18	Smooth	Diamond	FDA, LN
ICLAM 2/8 30 R5/B PG V LN	PVC	2	3.0	Petrol Green	8	R5	Bare	LN
ICLAM 2/8 13 B/B W V FDA LN	PVC	2	1.3	White	8	Bare	Bare	FDA, LN
ICLAM 2/8 20 S/B W V FDA LN	PVC	2	2.0	White	8	Smooth	Bare	FDA, LN
ICLAM 2/8 25 D/F W V FDA LN	PVC	2	2.5	White	8	Diamond	Friction	FDA, LN
ICLAM 4/18 50 S/D W V FDA LN	PVC	4	5.0	White	18	Smooth	Diamond	FDA, LN
ICLAM 2/8 30 S/D BL V FDA LN	PVC	2	3.0	Black	8	Smooth	Diamond	FDA, LN
ICLAM 2/13 30 HC/HC W V FDA	PVC	2	3.0	White	13	Bare Cotton	Bare Cotton	FDA
ICLAM 2/8 50 ST/B W V FDA LN	PVC	2	5.0	White	8	Sawtooth	Bare	FDA, LN
ICLAM 2/10 64 LR2/B R V (NEW)	RVA	2	6.4	Red	10	LR	Bare	High Incline

Conveyor Belt - PU Belting Code	Material	Plies	OAG (mm)	Color	Tension Rating @ <1%, N/mm.	Cover Surface	Bottom Surface	Other
ICLAM 1/6 8 S/F W U FDA LN	PU	1	0.8	White	6	Smooth	Impregnated	FDA, LN
ICLAM 1/6 8 M/F W U FDA AS LN	PU	1	0.8	White	6	Matte	Impregnated	FDA, AS LN
ICLAM 1/6 8 M/F W U FDA AS LN	PU	1	0.8	White	6	Matte	Impregnated	FDA, AS LN
ICLAM 2/10 13 M/F BL U FDA AS LN	PU	2	1.3	White	10	Matte	Impregnated	FDA, AS LN
ICLAM 2/10 14 S/F BL U FDA LN	PU	2	1.4	Blue	10	Smooth	Impregnated	FDA, LN
ICLAM 2/10 13 S/B W U FDA LN	PU	2	1.3	White	10	Smooth	Bare	FDA, LN
ICLAM 2/12 13 S/F W U FDA LN	PU	2	1.3	White	12	Smooth	Impregnated	FDA, LN
ICLAM 2/12 13 F/F W U FDA LN	PU	2	1.3	White	12	Friction	Impregnated	FDA, LN
ICLAM 2/12 13 M/F W U FDA AS LN	PU	2	1.3	White	12	Matte	Impregnated	FDA, AS LN
ICLAM 2/12 25 D/F W U FDA LN	PU	2	2.5	White	12	Diamond	Impregnated	FDA, LN

# CONVEYOR BELTING PRODUCT CATALOG



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