

DHIYOHOUSE

HOUSE OF COAL & CONVEYOR BELTS

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ABOUT DHIYOHOUSE

Durability & Longevity is housed here

Dhiyohouse Inc. prides itself in manufacturing & supplying the highest quality belts for the past 15 years. We work closely alongside government regulations and standards to ensure our surface and MSHA approved belts exceed market expectations and safety regulations. For over a decade, Dhiyohouse has specialized in producing & distributing general purpose, heat & fire resistant, oil resistant, chevron, steep angle, straight warp, and other variants of conveyor belts per our client's needs.

Quality is Our First Priority

Through vigorous tests and constant changes, we prioritize the quality of our belts. Every foot of belt is monitored and inspected to warrant the highest quality belt for our clients. We believe strongly in reducing operating costs and increasing productivity for our end-users, along with continually seeking improvements in our curating and production process.

NYLON & POLYESTER (EP) BELTING

Our Nylon & Polyester Nylon belts are manufactured to suit a wide range of applications including but not limited to coal, cement, aggregate, and furnace slag industries. We utilize specifically designed fabrics and inter-ply/skim rubber to withstand impact on belts which is a common cause for belt damages.

Advantages:

- Can be used across industries to convey varied products
- High adhesion and strong bonding between the covers and plies
- Available in an array of covers to suit specific requirements
- Ease in splicing (mechanical, as well as hot/cold)

DHIYO HOUSE RANGE OF NYLON-NYLON & POLYESTER NYLON BELTING

Belt width	8" to 84"
No. of plies	1 to 8
Edges	Cut edge & Sealed edge
Type of breaker	Nylon, Polyester
Length	Standard roll length is 1,000 FT
	The restriction on length over and above 1000 FT is subject to transportable roll diameter and weight.
Belt thickness	0.11" to 1.57"
Standards followed	MSHA & CAN-CSA

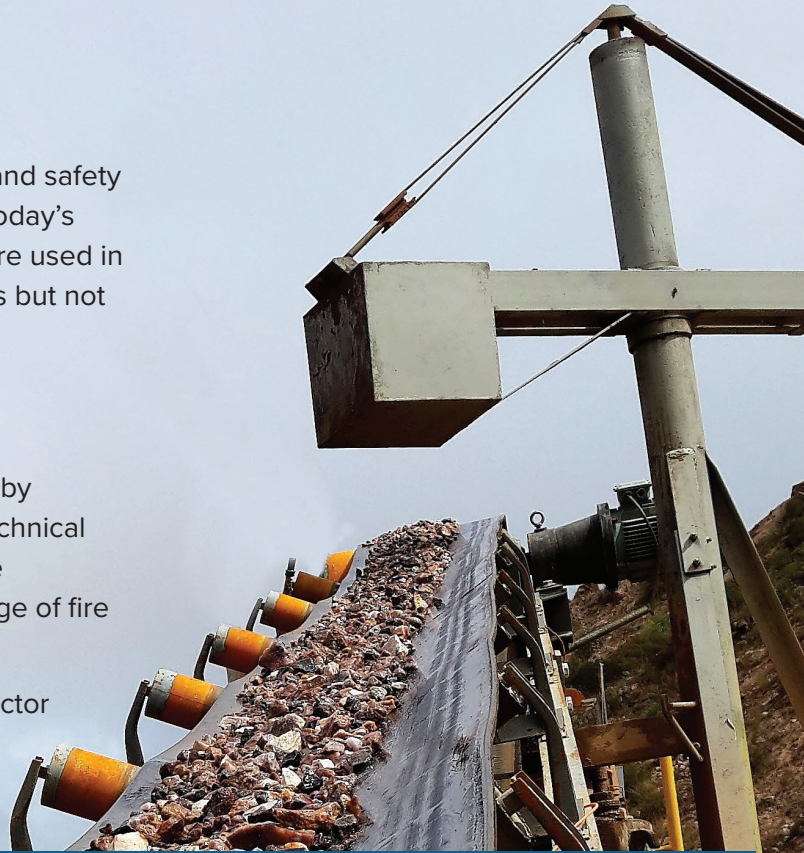


MSHA FLAME RETARDANT CONVEYOR BELT

Dhiyohouse Inc. works closely with government regulations and safety standards to render the best quality MSHA PART 14 belts in today's current market. Our MSHA Flame Retardant conveyor belts are used in underground mining and convey flammable materials such as but not limited to mining sinter, cinder, coke, etc.

Advantages

- Our fire-resistant belts act as a prohibiting tool against fires by offering various degrees & grades of fire resistance. Our Technical Team has been able to incorporate new technology into the manufacturing of fire-resistant belts by ensuring the stoppage of fire propagation or limiting the fire propagation at its origin.
- Fire-resistant belts also cater to the Underground Mining sector by offering specialized low smoke and low toxicity belts.



SPECIFICATIONS

Surface resistance		$\leq 3 \times 10^8 \Omega$
Drum friction		Drum Temperature shall not exceed 325°C, belt shall show no sign of flame, sparks or glow
Burner flame test		With rubber cover: average ≤ 3 seconds, individual ≤ 10 seconds
		Without rubber cover: average \leq seconds, individual ≤ 15 seconds
Fabric full thickness tensile strength (KN/m)		200~4000
Work elongation		$\leq 2\%$
Elongation at break		450%
Adhesion		$\leq 5\text{N/mm}$
Rubber thickness (mm)	Top	1.5 ~ 12
	Bottom	0 ~ 4.5
Rubber abrasion		$\leq 250\text{mm}^3$
Width (mm)		400-2500
Length/Roll (m)		≤ 300 meter / 1000 FT
Standard		MSHA



HEAT RESISTANT BELTS

Our heat-resistant belts are suitable for conveying material of a varied range of high temperatures. We formulate this belt by studying the application and the nature of the material that needs to be conveyed. The below-mentioned factors are taken into consideration prior to recommending a heat-resistant belt.

- Peak Temperature of the material to be conveyed
- Average Temperature of the material to be conveyed
- Cooling duration of the material
- Size, shape and the abrasion of the material
- Speed at which the material is conveyed
- The distance the material needs to be conveyed

PRODUCT FEATURES

Standard widths	300mm to 2200mm (up to 5000mm, with longitudinal joint)
Ply's available	EP / NN / PP
Standard belt rating	200 to 3200 KN/M
Number of ply's	1 ply belts to 8 ply belts
Rubber cover thickness	1mm to 20mm
Color	Black
Edge	Cut edge / Molded edge
Splicing method	Hot / Cold / Mechanical
Belt identification	A unique PAN (Product Authentication Number) at every 10 meters

OIL RESISTANT BELTS

Materials containing oils, greases, vegetable & animal fats, etc. cannot be conveyed using our EP/general purpose belts, as this would result in the swelling of the covers on the conveyor belt. A solution to this problem would be our oil-resistant belts. These specialized belts are made from treated synthetic rubbers and are appropriate for conveying various types of oil-coated materials for assorted applications.

Dhiyohouse Inc. also offers oil-resistant belts with dual properties such as the following:

- FIRE-RESISTANT + OIL-RESISTANT (FROR)
- HEAT-RESISTANT + OIL-RESISTANT (HROR)

Advantages:

- Higher product life as compared to general-purpose belting for oil-resistant applications
- A variety of grades to suit any particular applications
- A fair degree of chemical resistant

PRODUCT FEATURES

Standard widths	300mm to 220mm (up to 5000mm, with longitudinal joint)
Ply's available	EP / NN / PP
Standard belt rating	200 to 2500 KN/M
Number of ply's	1 ply belts to 8 ply belts
Rubber cover thickness	1mm to 20mm
Color	Black
Edge	Cut edge / Molded edge
Splicing method	Hot / Mechanical
Belt identification	A unique PAN (Product Authentication Number) at every 10 meters



TRANSMISSION BELTS

Steel Belt - All cotton fabric of 34 oz. with parallel red lines warp wise. The heavy duty cotton fabric used, provides good service on heavy duty drives and is resistant to continuous jerks during operations.

Super Hi-Life Belt - All cotton fabric of 31 oz. with parallel blue lines warp wise. Meant for medium drives. Steel and Super Hi-Life Belts are embossed at every 6 meters. Transmission belts are manufactured up to 1250 mm width.

PULLEY DIAMETERS						
Ply rating	3 ply	4 ply	5 ply	6 ply	8 ply	10 ply
Min. Pulley Diameter	3"	4"	5"	8"	14"	20"

PLY CONSTRUCTION	NOMINAL THICKNESS OF BELT (MM)
3 ply	4.0
4 ply	5.1
5 ply	6.5
6 ply	7.5
8 ply	10.5
10 ply	13.0

BELT FASTENERS				
Belt	3 ply	4 ply	5 ply	6 ply
Fastener Number	25	27	35	45
Pin Diameter	3"	4"	5"	6"

It is necessary to cut the belts at right angles so that the fastener after fitting should be in one line. For wider belts more 4" or 4, 6, 8, or 10 piles always use Jackson Bolt and Nut fasteners and pay attention to the following instructions.

- A. Cut the belts at right angles
- B. Overlap the belts more than half the pulley circumference.
- C. It is very necessary to use the punch for the holes on the belt.
- D. Details for the size of bolt and ply rating follows:

Belt	4 ply	5 ply	6 ply	8 ply
Bolt	1/4"	5/16"	3/8"	3/8"

Precaution

1. It is better to use a wider belt instead of higher ply rated belts or thicker belts.
2. Fasten the bolts properly before starting the motor.
3. Avoid the use of oily wood resin. Only use dry wood resin in an emergency when the bolts stretch under tension and adjust the motor to remove the slackness or cut and rejoin. The above stated guidelines are to obtain longer lifespan for the belts and the machine.

OTHER INDUSTRIES

SPECIFICATION	PLIES	TENSION RATING	COVERS	GAUGE NOM.	TEMP RANGE (F°)	MIN. PULLEY DIAMETER HEAD/TAIL
3 PLY-330-1/8 X 1/16 MOR MULTI-V	3	330	MOR 1/8 X 1/16	5/8"	-25 TO 225	18" - 14"
3 PLY-330-1/8 X B MOR MULTI-V	3	330	MOR 1/8 X B	9/16"	-25 TO 225	18" - 14"
2 PLY-220-1/8 X 1/16 MOR MULTI-V	2	220	MOR 1/8 X 1/16	17/32"	-25 TO 225	16" - 12"
2 PLY-150-1/16 X B MOR MINI BITE	2	150	MOR 1/16 X B	11/32"	-25 TO 225	6" - 6"
2 PLY-220-1/8 X 1/16 MOR MULTI-CHEV	2	220	MOR 1/8 X 1/16	17/32"	-25 TO 225	16" - 10"
3 PLY-330-1/8 X 1/16 MOR MULTI-CHEV	3	330	MOR 1/8 X 1/16	5/8"	-25 TO 225	18" - 12"
2 PLY-160-1/8 X 1/16 STONE SLINGER	2	160	MOR 1/8 X 1/16	21/32"	-25 TO 225	10" - 8"
4 PLY-440-3/16 X 1/16 MOR	4	440	NIT/SBR 3/16 X 1/16	15/32"	-25 TO 225	24" - 16"
3 PLY-330-3/16 X 1/16 MOR	3	330	NIT/SBR 3/16 X 1/16	13/32"	-25 TO 225	18" - 12"
2 PLY-220-3/16 X 1/16 MOR	2	220	NIT/SBR 3/16 X 1/16	11/32"	-25 TO 225	16" - 10"
2 PLY-220-1/8 X 1/16 MOR	2	220	NIT/SBR 1/16 X 1/16	5/16"	-25 TO 225	12" - 10"
4 PLY-200-1/4 X 1/16 - 750°	4	200	EPDM 1/4 X 1/16	1/2"	-20 TO 750	18" - 16"
3 PLY-330-1/4 X 1/16 - 400°	3	330	EPDM 1/4 X 1/16	15/32"	-20 TO 400	18" - 12"
2 PLY-220-3/16 X 1/16 - 400°	2	220	EPDM 3/16 X 1/16	3/8"	-20 TO 400	16" - 10"
2 PLY-330-3/16 X 1/16 - 300° Hot asphalt with oil presence	3	330	NITRILE 3/16 X 1/16	13/32"	-10 TO 300	18" - 12"
2 PLY-220-3/16 X 1/16 - 300° Hot asphalt with oil presence	2	220	NITRILE 3/16 X 1/16	3/8"	-10 TO 300	16" - 10"

GROOVED RUBBER MATTING

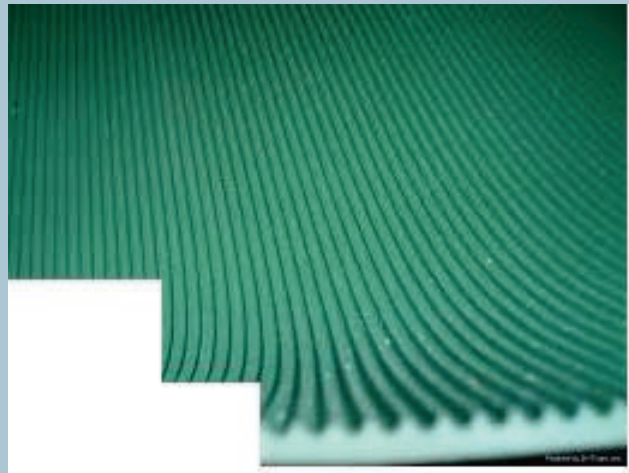
The primary objective is to provide a durable non skid floor mat. DHI matting is excellent for shock absorption and slip resistance as well as providing improved walking comfort.

DHI manufactures two types of ribbed mat i.e. Rine Rib and Flat Rib. It is ideally suited for loose lay applications for floors, walkaway, runners, loading areas, work benches and general purpose areas.

Standard Size Available

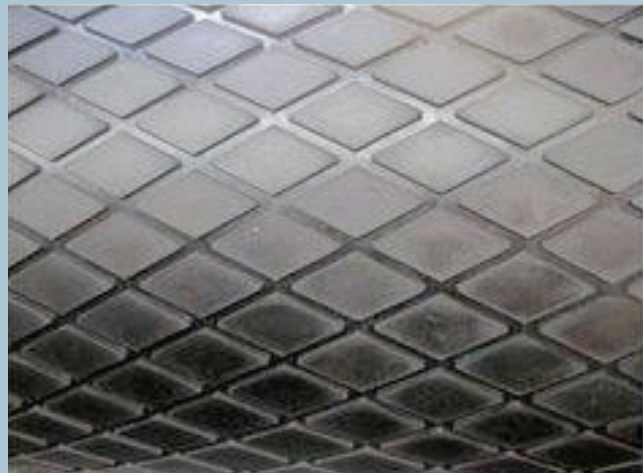
1200 mm wide x 10 mtr long x 3 & 6 mm thick rolls

1000 mm wide x 10 mtr long x 3 & 6 mm thick rolls



DIAMOND GROOVED PULLEY LAGGING RUBBER SHEETS

Which has excellent co-efficient of friction along with the conveyor belt surface resulting in saving energy. It also has good abrasion resistance to achieve better life and prevents frequent shut down operations. We also manufacture along with Neoprene based backing layer, which gives better bonding with the pulley surface.

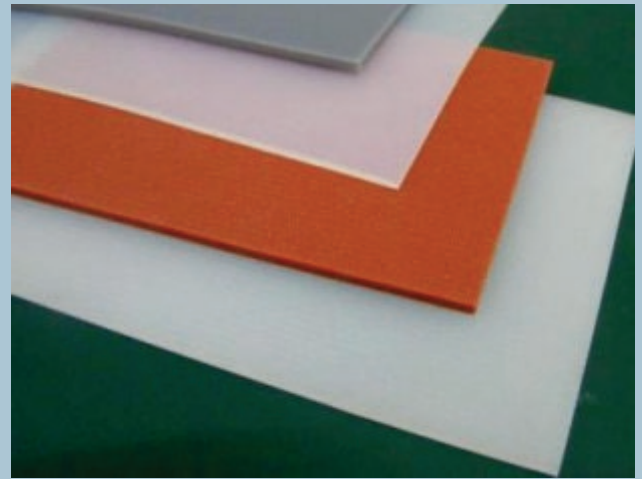


Code	Color	Density (Gms/Cu CC)	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation (%)
DPL15065	Black	1.50	65+/-5	4.0	300
DPL13065	Black	1.30	65+/-5	6.0	350
DPL13065	Black	1.18	65+/-5	12.0	450

Availability: 1200 mm wide in all thicknesses.

SILICONE RUBBER SHEETS

Which is used for high temperature applications. We also offer FDA approved silicone rubber sheets and translucent silicone sheets having high tensile strength and elongation. Following are the various grades available.



Code	Color	Density (Gms/Cu CC)	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation (%)
SI 15060	Red/White	1.50	60+/-5	4.0	250
SI 13060	Red/White	1.30	60+/-5	6.0	300
SI 12060	Red/White	1.20	60+/-5	6.5	400
TSI 12060	Translucent	1.20	60+/-5	7.0	450

Availability: 1200 mm wide in all thicknesses, 1500 mm wide up to 10 mm.
Can be manufactured in any specified color also.

ABRASION RESISTANT RUBBER SHEETS

Which is mainly used in Shot blasting machines to protect walls of shot blasting room from corrosion.

DHI manufactures these sheets using the finest grade of natural rubber to achieve excellent abrasion resistance and rebound resilience, which gives better life resulting in fewer replacements.



Code	Color	Density (Gms/Cu CC)	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation (%)
CAR 13045	Red/Black/OW	1.30	45+/-5	6.0	450
EAR 12045	Black	1.20	45+/-5	12.0	500
HAR 11040	Red/OW	1.10	40+/-5	16.0	600
HAR 10540	Red/OW	1.18	40+/-5	20.0	700
HAR 10040	Red/OW	1.100	40+/-5	22.0	750

Availability: 1200 mm wide in all thicknesses, 1500 mm wide up to 10 mm.

NATURAL RUBBER SHEETS

Used for General purpose applications. These sheets are available in black and white. These sheets are also manufactured in customized colors. Following are the various grades available.



Code	Color	Density (Gms/Cu CC)	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation (%)
CNR 18070	Black	1.80	70+/-5	2.5	200
CNR 16070	Black	1.60	70+/-5	3.0	250
CNR 15070	Black	1.50	65+/-5	3.5	300
CNR 14060	Black	1.40	60+/-5	4.0	350
CNR 15060	OW/Red	1.50	60+/-5	4.0	400

Availability: 1200 mm wide in all thicknesses, 1500 mm wide up to 10 mm.

EPDM RUBBER SHEETS (ETHYLENE PROPYLENE DIENE MONOMER)

Highly recommended for outdoor uses, as it has extreme resistance to oxidation, U.V. rays and ozone.

DHI's EPDM rubber sheets are resistant to many corrosive chemicals and solvents. Operating temperature range of EPDM sheet is -45°C to +125°C. It is also used as water proofing membrane for roof tops.

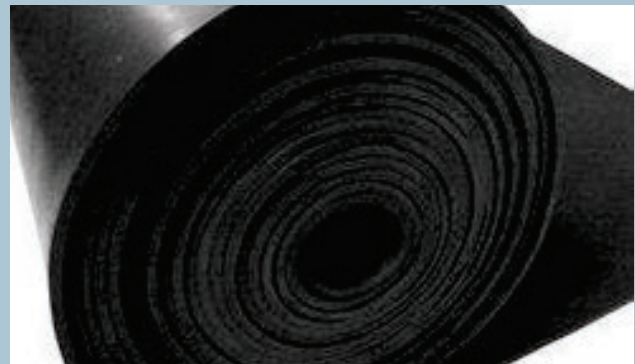


Code	Color	Density (Gms/Cu CC)	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation (%)
EP 14065	Black	1.40	65+/-5	5.0	250
EP 12065	Black	1.20	65+/-5	10.0	300

Availability: 1200 mm wide in all thicknesses, 1500 mm wide up to 10 mm.

NEOPRENE RUBBER SHEETS (CHLOROPRENE)

Which has excellent mechanical and good abrasion resistance properties. It has good resistance to heat, ozone and also bonds well with metal. DHI recommends an operating temperature range between -40°C to +125°C. It has good resistance to inorganic hydrocarbons and also has flame retardant properties.



Code	Color	Density (Gms/Cu CC)	Hardness (Shore A)	Tensile Strength (Mpa)	Elongation (%)
CR 15065	Black	1.50	65+/-5	4.0	300
CR 14065	Black	1.40	65+/-5	7.0	300
CR 13065	Black	1.30	65+/-5	6.0	500

Availability: 1200 mm wide in all thicknesses, 1500 mm wide up to 10 mm.

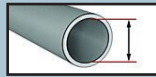
HYDRAULIC HOSES

Max. Working Pressure at 70°F

2,250 psi
2,400 psi
3,125 psi
4,000 psi
4,800 psi
5,800 psi
10,000 psi

Hose Inside Diameter

1/4 in
3/8 in
1/2 in
3/4 in
1 in



Hose Length

15 in
24 in
36 in
4 ft
5 ft
6 ft
8 ft
9 ft
10 ft
15 ft
20 ft

Fitting Size

1/4 in x 1/4 in
3/8 in x 3/8 in
7/16 in x 7/16 in
1/2 in x 1/2 in
9/16 in x 9/16 in
3/4 in x 3/4 in
7/8 in x 7/8 in
1 in x 1 in
1-1/16 in x 1-1/16 in
1-5/16 in x 1-5/16 in

Fitting Type

FJIC x FJIC
M Coupler x M Coupler
MNPT x M Quick Disconnect
MNPT x MNPT
NPTF x M Coupler

Standards

MHI 1J100
MSHA Approved
MSHA APPROVED
SAE J517C 100R2

Hose Cover Material

Neoprene
Nylon
Polyurethane
Synthetic Rubber

Hose Tube Material

Rubber
Synthetic Rubber





DHIYOHOUSE

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