

VULCANIZED LAGGING



HERRINGBONE GROOVE LAGGING (HBG) - The style of lagging required is usually influenced by operating conditions. With this style grooving, the points do not meet in the middle. This is normally used in drive pulleys, as water is channeled away from the center of the pulley/belt by the grooves (3/8" minimum thickness).



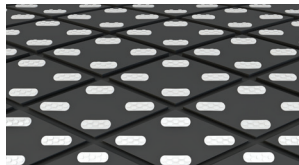
CHEVRON GROOVE LAGGING (CHE) - Some prefer having the points meet, as done in Chevron. This is normally used in drive pulleys, as water is channeled away from the center of the pulley/belt by the grooves (3/8" minimum thickness).



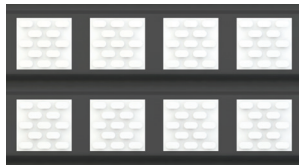
DIAMOND GROOVE LAGGING (DIA) - Diamond, sometimes referred to as double herringbone, is primarily, used for reversing conveyor drive pulleys. It is also often used for spare pulleys so that it can be used in either direction (3/8" minimum thickness).



CIRCUMFERENTIAL GROOVE LAGGING (CIR) - Circumferential Groove Lagging is used on non-drive pulleys for wet applications OR for cold temperatures. It allows the lagging to deflect and keeps material from building up on the lagging extending the temperature range of the lagging (3/8" minimum thickness).



VULCANIZED ENGINEERED CERAMIC LAGGING (VEC) - This patented ceramic lagging starts with hot vulcanized lagging applied to the pulley. We then embed ceramic tiles into the lagging, providing an excellent bond to the pulley with no seams for foreign material to penetrate and cause failures. For use on fabric belting only with PIW of 1000 or less.



CERAMIC LAGGING - Ceramic lagging is a premium lagging where the ceramic tiles are molded into a rubber compound which makes for excellent traction, eliminates slippage, and offers excellent abrasion resistance. Available in 3 thicknesses; 5/8, 3/4 and 1". For tensions up to 1500 PIW, PPI recommends 5/8" and 3/4". For tensions over 1500 PIW please contact PPI Engineering Department as 1" thickness may be required.



CRAFT-LAG® REPLACEABLE LAGGING - Craft-Lag is bonded to rigid steel backing, which is then formed to a specific diameter. Craft-Lag can be used with or without retainers and is ideal for mining, crushed stone, sand and gravel, cement, agriculture, food processing, coal mining, power plants, feed and grain, and general industry.

PPI has complete in-house pulley lagging capabilities. Every step of the pulley manufacturing and lagging process is controlled internally, which assures quality, prompt delivery, and competitive pricing of lagged pulleys. Available in a wide variety of styles and thicknesses, lagging is primarily used to improve traction capacity, resist abrasive conditions, and extend pulley and belt life. The style of lagging required is usually influenced by operating conditions. SBR is the standard lagging material, however neoprene and MSHA are available as well as many other compounds to suit a variety of applications.

FEATURES AND BENEFITS

- In-House lagging facilities - PPI controlled
- 60 durometer is the industry standard for lagging material hardness. It is also available in various durometers, with 45 and 70 being the common alternates.
- SBR standard - neoprene and MSHA optional - others on request
- Available in a wide variety of thicknesses

VULCANIZED LAGGING



LAGGING COMPOUND			CHEMICAL RESISTANCE PROPERTIES						REMARKS
Material	Shore A Duro ±5	Color	Oil & Gas	Animal/Veg. Oils	Alcohols	Alkalies	Acids	Oxygen Solvent	
SBR	45,60,70,80,90	BLACK	D	C	B	C	C+	B	Low Cost
NEOPRENE	45*,60*,75	BLACK	C+	B	B+	A	B	D+	Grain & MSHA
URETHANE	45,60,90	RED	B+	B	C+	D	D+	D	Low Temp
NITRILE	45,60	BLACK	B+	B+	C+	B+	B	D	Oil Resistant
EPDM	60-BLK,70-WHT	BLK/WHT	D	B	C+	B+	B	B+	High Temp
NATURAL	60,70-BLK/60-WHT	BLK/WHT	D	C	B	C	C+	B	
NEOPRENE(FDA)	60	WHITE	C+	B	B+	A	B	D+	Food Service
NITRILE(FDA)	50,90	WHITE	B+	B+	C+	B+	B	D	Food Service

A-Excellent, B-Good, C-Fair, D-Poor.

*Requires a stamp for MSHA Approval.

LAGGING COMPOUND			ENVIRONMENTAL RESISTANCE PROPERTIES						
Material	Shore A Duro ±5	Color	Oxidation	Ozone	Weathering	Sunlight	Water	Flame	Heat
SBR	45,60,70,80,90	BLACK	C+	D	C	C	B+	D	C+
NEOPRENE	45*,60*,75	BLACK	B+	B	B	B+	B	B*	C+
URETHANE	45,60,90	RED	B+	A	B+	B+	B	D+	C+
NITRILE	45,60	BLACK	C+	D	C+	D+	B+	D	B
EPDM	60-BLK,70-WHT	BLK/WHT	B+	A	A	A	A	D	B+
NATURAL	60,70-BLK/60-WHT	BLK/WHT	C+	D	C	D+	A	D	C
NEOPRENE (FDA)	60	WHITE	B+	B	B	B+	B	B	C+
NITRILE (FDA)	50,90	WHITE	C+	D	C+	D+	B+	D	B

SBR - Styrene Butadiene Copolymer
Nitrile - Butadiene Acrylonitrile Copolymer

Neoprene - Chloroprene Polymer
EPDM - Ethylene ProPyrene Copolymer & Terpolymer

Natural - Poly Isoprene
Urethane - Urethane Polymer

LAGGING COMPOUND		PHYSICAL PROPERTIES							
Material	Shore A Duro ±5	Color	Min Tensile Str. (psi)	Elongation	Max Temp	Min Temp	300% Mod (psi)	Tan Delta	DIN Abrasion
SBR	45	BLACK	1900	600%	225F	-50F	350	--	--
	60		2000	450%			1100	0.36	187
	70		2000	400%			1400	--	--
	80		2400	400%			--	--	--
	90		N/A	N/A			--	--	--
NEOPRENE	45*	BLACK	1500	400%	212F	-50F	450	--	--
	60*		2000	400%			1400	0.36	188
	75		1850	290%			--	--	--
URETHANE	45	RED	1960	710%	225F	-40F	310	0.13	130
	60		2770	570%			1330	0.13	130
	90		4700	450%			2100	0.13	130
NITRILE	45	BLACK	1210	840%	250F	-40F	190	--	--
	60		1870	690%			390	--	--
EPDM	60	BLACK	1290	560%	300F	-40F	350	--	--
	70	WHITE	1080	520%			500	--	--
NATURAL	60(BLKorWHT)	--	2750	500%	180F	-45F	1070	--	--
	70(BLK)	--	1470	330%			1310	--	--
NEOPRENE(FDA)	60	WHITE	1200	600%	212F	-50F	375	--	--
NITRILE(FDA)	50	WHITE	--	--	250F	-40F	--	--	--
	90		--	--			--	--	--

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