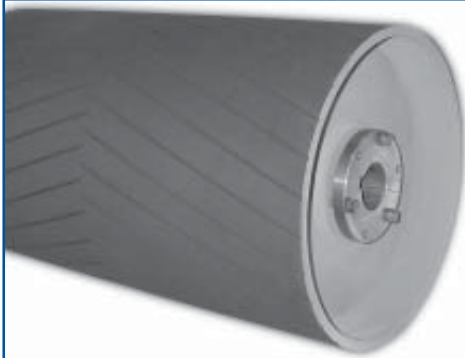




- Lagging increases traction.
- Extends life of pulley and belt in abrasive conditions.
- PCI can also re-lag your existing pulleys and rollers.
- PCI provides complete in-house lagging capabilities.

Drum Pulley Lagging Weight Chart

Dia.	Thickness	Face Length																					
		12	14	16	18	20	22	24	26	30	32	36	38	40	44	46	51	54	57	60	63	66	72
14	1/4	3	3	4	4	5	5	6	6	7	7	8	9	9	10	11	12	12	13	14	15	15	17
14	3/8	4	5	6	6	7	8	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	25
14	1/2	6	7	7	8	9	10	11	12	14	15	17	18	19	20	21	24	25	27	28	29	31	33
16	1/4	3	3	4	4	5	5	6	6	7	8	8	10	11	12	12	13	14	15	16	17	17	19
16	3/8	5	6	6	7	8	9	10	10	12	13	14	15	16	17	18	20	21	23	24	25	26	29
16	1/2	6	7	8	10	11	12	13	14	16	17	19	20	21	23	24	27	29	30	32	33	35	38
18	1/4	4	4	5	5	6	7	7	8	9	9	11	11	12	13	14	15	16	17	18	19	20	21
18	3/8	5	6	7	8	9	10	11	12	13	14	16	17	18	20	20	23	24	25	27	28	29	32
18	1/2	7	8	10	11	12	13	14	15	18	19	21	23	24	26	27	30	32	34	36	38	39	43
20	1/4	4	5	5	6	7	7	8	9	10	11	12	12	13	14	15	17	18	19	20	21	22	24
20	3/8	6	7	8	9	10	11	12	13	15	16	18	19	20	22	23	25	27	28	30	31	33	36
20	1/2	8	9	11	12	13	15	16	17	20	21	24	25	26	29	30	34	36	38	40	42	44	48
24	1/4	5	6	6	7	8	9	9	10	12	13	14	15	16	17	18	20	21	22	24	25	26	28
24	3/8	7	8	9	11	12	13	14	15	16	19	21	22	24	26	27	30	32	34	36	37	39	43
24	1/2	9	11	13	14	16	17	19	21	24	25	28	30	32	35	36	40	43	45	47	50	52	57
30	1/4	6	7	8	9	10	11	12	13	15	16	18	19	20	22	23	25	27	28	29	31	32	35
30	3/8	9	10	12	13	15	16	18	19	22	24	27	28	30	33	34	38	40	42	44	47	49	53
30	1/2	12	14	16	18	20	22	24	26	30	32	36	38	39	43	45	50	53	56	59	62	65	71
36	1/4	7	8	9	11	12	13	14	15	18	19	21	22	24	26	27	30	32	34	35	37	39	42
36	3/8	11	12	14	16	18	19	21	23	27	28	32	34	35	39	41	45	48	50	53	56	58	64
36	1/2	14	17	19	21	24	26	28	31	35	38	43	45	47	52	54	60	64	67	71	75	78	85



Vulcanized Rubber Lagging

- Standard Pulley lagging is 60 durometer SBR. Also available in a wide selection of durometers and compounds such as: Neoprene, Nitrile, EPDM. See page 39 for more information.
- Supplied in rough ground finish as standard.
- Please specify crown or flat face when ordering. Special crown configurations can be supplied per your specifications.

Vulcanized Rubber Lagging Groove Options

Lagging is bonded directly to the pulley core. This process creates a strong durable bond for a long service life. If grooving is required, please specify direction of rotation. Normally the apex of the groove pattern is leading the pattern in rotation. PCI can also re-lag your existing pulleys and rollers in our plant.



Herringbone Groove Lagging

- Used on drive pulleys
- V-pattern (apex) points in direction of rotation.
- 3/8" minimum thickness required.



Chevron Groove Lagging

- Used on drive pulleys
- V-pattern (apex) points in direction of rotation.
- 3/8" minimum thickness required.



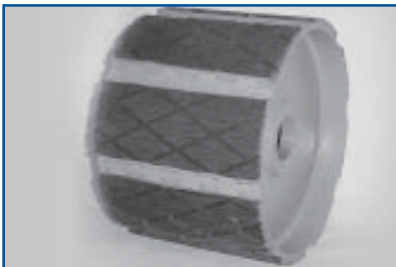
Diamond Groove Lagging

- Used on reversing drive pulleys
- Chosen when direction of rotation is unknown.
- 3/8" minimum thickness required.



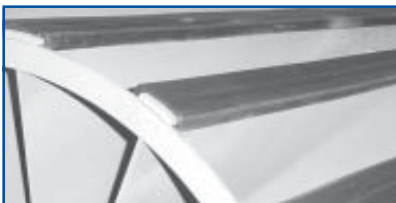
Spiral Wrap Rough Top

PCI pulleys are available with spiral wrapped rough top lagging. Strips of belting are glued and riveted to the pulley core providing traction on drive pulleys. Economical and easy to replace, spiral wrap lagging does not have the same bond strength as vulcanized lagging. This style of lagging is more suited to smaller package handling pulleys, where conveyor loads are lighter and drive torques are lower. Not recommended on pulleys over 12" in diameter.



Replaceable Lagging

Vulcanized rubber is bonded to steel backing plates that are formed to the pulley rim. Pads are held in place by retainers that are welded or bolted to the pulley rim. New pads can be installed on a pulley without removing the pulley from the conveyor. PCI can supply this type of lagging on a new pulley, or install it in our plant on your existing pulleys.



Wing Pulley Lagging

Replaceable wing lagging is available for all sizes of heavy duty and mine duty wing pulleys. Wing lagging can help extend belt and pulley life. PCI can install wing lagging on new pulleys. Re-lagging service is available by returning your pulleys to our plant.



Vulcanized Rubber Characteristics

MATERIAL	SBR BUNA S	EPDM	NEOPRENE	CARBOXY- LATED NITRILE	NATURAL RUBBER	CAST URETHANE (ETHER)	MILLABLE URETHANE (ETHER)	HYPALON	SILICONE	TEFLON*	CERAMIC**
RELATIVE PHYSICAL PROPERTIES											
MAXIMUM SERVICE TEMP.	200°	300°	250°	275°	212°	212°	212°	300°	475°	550°	212°
ABRASION RESISTANCE	AVG	AVG	VG	EX	EX	EX	EX	VG	POOR	POOR	EX
TEAR STRENGTH	AVG	AVG	VG	EX	EX	EX	EX	VG	POOR	--	EX
TENSILE STRENGTH	AVG	AVG	VG	EX	EX	EX	EX	VG	POOR	--	EX
COEFFICIENT OF FRICTION	VG	VG	VG	VG	EX	FAIR	EX	VG	FAIR	POOR	EX
RESILIENCY	AVG	AVG	VG	FAIR	EX	VG	VG	AVG	POOR	--	EX
RELEASE	POOR	FAIR	POOR	POOR	POOR	FAIR	POOR	POOR	AVG	EX	FAIR
HYSTERESIS	FAIR	FAIR	VG	POOR	EX	EX	EX	FAIR	EX	EX	EX
RESISTANCE TO CHEMICALS											
ACIDS	AVG	VG	AVG	FAIR	AVG	POOR	POOR	AVG	VG	EX	AVG
ALCOHOL	EX	EX	VG	VG	EX	VG	VG	VG	VG	EX	EX
ALIPHATIC HYDROCARBONS	VG	POOR	AVG	EX	POOR	EX	EX	AVG	AVG	VG	POOR
AROMATIC HYDROCARBONS	AVG	FAIR	FAIR	AVG	POOR	EX	EX	FAIR	FAIR	VG	POOR
CAUSTICS	AVG	VG	VG	AVG	AVG	POOR	POOR	VG	VG	POOR	AVG
CHLORINATED HYDROCARBONS	POOR	POOR	POOR	POOR	POOR	FAIR	FAIR	POOR	AVG	EX	POOR
ESTERS	POOR	EX	AVG	POOR	EX	FAIR	FAIR	AVG	AVG	EX	EX
KETONES	FAIR	EX	AVG	FAIR	EX	FAIR	FAIR	AVG	AVG	EX	EX
OZONE	POOR	EX	VG	POOR	POOR	VG	VG	EX	EX	EX	POOR
WATER	VG	EX	VG	AVG	EX	EX	VG	EX	VG	EX	EX

*Teflon coating is a spray-on, heat cured process.

**Ceramic lagging is a cold bonded, vulcanized product.

RATING SCALE
EX = EXCELLENT
VG = VERY GOOD
AVG = AVERAGE
FAIR
POOR

Definitions of Rubber Characteristics

Abrasion Resistance

A materials ability to withstand physical and mechanical action such as rubbing, scraping, or erosion that tends to progressively remove material from its surface.

Coefficient of Friction

Ratio of the tangential force required to move one surface over another to the total normal force pressing the two surfaces together. A lagging material with a high or excellent coefficient of friction will result in better traction than one with a low or poor coefficient. Rough surfaces will have a higher coefficient of friction than smooth surfaces of like materials.

Durometer

Measure of rubber hardness.

Hysteresis

The measure of heat buildup caused by friction or other mechanical action when the rubber is in motion.

Maximum Service Temperature

Maximum continuous operating temperature ignoring a temperature increase caused by hysteresis.

Millable

The milling of uncured rubber in the production or processing stage before curing of the rubber compound. Generally these processing steps are required to allow for specific molding, extrusion and curing processes.

Resiliency

Ability to return to original size and shape after deformation.

Tear Strength

Maximum load required to tear apart a prescribed size rubber sample.

Tensile Strength

The amount of force required to stretch a prescribed sample size to the breaking point.

Vulcanization

The process of permanently changing a rubber compound to a cured state with heat and pressure and the appropriate facilitating chemicals to initiate this chemical cross-linking process.