



ROLL COMPOUND SELECTION GUIDE

E	Excellent	H	High
G	Good	M	Medium
F	Fair	L	Low
P	Poor		

BASE ELASTOMER	Natural Rubber (Polyisopren)	SBR (Styrene Butadiene)	EPDM (Ethylene Propylene)	Neoprene (Chloropren)	Nitrile (Butadiene / Buna-N)	XNBR (Carboxylated)	HNBR (Hydrogenated)	Hypalon	Silicone (Polysiloxane)	Urethane
Durometer range	25-95	25-95	25-90	25-95	25-95	50-90	30-95	40-90	50-80	35-95
Elongation Max %	700	600	600	600	600	600	550	500	700	900
Maximum Tensile Strength-PSI	3200	2800	2800	2800	2800	3500	3500	2800	1000	6000
Resilience	H	M	G	H	F	F-G	G	F	M	P-G
Impact Strength	E	E	G	E	G	G-E	E	F	F	G-E
Abrasion Resistance	E	E	G	E	E	E	E	E	P	E
Tear Resistance	E	F	F	G	G	E	E	E	F	G-E
High Temp. Usage (°F)	180	180	300	225	250	250	300	225	550	220
Low Temp. Usage (°F)	-45	-45	-45	-40	-40	-20	-30	-50	-140	-40
Oil Resistance	P	P	P	E	E	G-E	G-E	G	G	G
Fuel Resistance	P	P	F	G	E	G-E	E	E	P	F-G
Weather Aging	F	F	E	G	G	F-G	G-E	E	E	E
Oxidation	F	F	E	E	F-G	G	E	F	E	G-E
Heat Aging	G	G	E	E	G	N/A	N/A	E	E	N/A
Water Swell Resistance	F	E	E	G	E	G	E	F	E	P-G
Flame Resistance	P	P	P	E	P	P	P	G	E	P-G
Adhesion To Metal	E	E	G	E	G	G-E	E	E	E	E
Electrical Resistivity	E	E	E	F	F	N/A	N/A	F	E	N/A
Typical Applications	Tires and tubes, gaskets, belts, hoses, seals, shock mounts	Same as Natural Rubber	Auto parts, molded parts, electrical insulation, dust covers, weather stripping and conveyor belts	Petroleum and chemical, automotive gaskets and seals, molded parts, footwear and weather-stripping	Printing rollers with good heat and aging resistance	Rolls for the textile industry which require oil resistance with good abrasion resistance and elastic resilience.	Rollers for steel mills and paper production. Rollers with high physical strength and retention of properties after long exposure to heat, chemicals and oils.	Similar to neoprene except with improve resistance. Recommended with water applications	General application where resistance to extreme heat is required	Rubber rollers with superior abrasion resistance and strong rubber to metal bonding.

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