

Elastomer Selection Guide

POLYMER TYPE	QSR Code No.	Material Designation ASTM D2000 SAE J200	PHYSICAL PROPERTIES				SERVICE TEMPERATURE				Ozone Resistance	FLUID RESISTANCE						
			Hardness Range, Shore A, Pts.	Tensile Strength, Max., PSI	Elongation, Max. Percent	Compression Set	Continuous, Max. 1000 Hrs./Air	Low Temperature		Gasoline (Aromatics)		Gasohol—M (Methanol)	Gasohol—E (Ethanol)	Lube & Grease (Aliphatics)	Water	Acids	Oxygenated Solvents (Ketones)	
								Dynamic	Static									
Neoprene	J	BC, BE	30-95	4000	800	Good	225°F	-40°F	-65°F	Good	Poor	Poor	Poor	Fair-Good	Good	Good-Excellent	Poor-Fair	
Epichlorohydrin	F	CH	40-95	2500	350	Fair-Good	275°F	-50°F	-75°F	Excellent	Good-Excellent	Fair-Good	Fair-Good	Excellent	Fair	Fair-Good	Poor-Fair	
Hypalon®	E	CE	40-95	4000	500	Fair-Good	250°F	-40°F	-60°F	Excellent	Poor-Fair	Poor	Poor	Fair-Good	Good	Excellent	Good	
Nitrile (Buna-N)	E	BF, BG, BK, CH	40-95	4000	800	Good	275°F	-30°F	-55°F	Poor-Fair	Good-Excellent	Fair-Good	Good	Excellent	Good-Excellent	Fair-Good	Poor	
Fluorocarbon -Viton® -Fluorel®	C	HK	50-95	3000	500	Excellent	500°F	-5°F	-40°F	Excellent	Excellent	Good-Excellent	Excellent	Excellent	Good-Excellent	Good	Poor	
Fluorocarbon (Kel-F®)	C	HK	55-85	3500	500	Good	425°F	-4°F	-40°F	Excellent	Good-Excellent	Good	Good	Excellent	Excellent	Excellent	Poor	
Silicone	A	FC, FE, GE	25-85	1500	800	Good-Excellent	525°F	-100°F	-180°F	Excellent	Poor	Poor	Poor	Fair	Excellent	Fair-Good	Fair-Good	
Fluorosilicone	B	FK	40-85	1300	350	Good	450°F	-70°F	-100°F	Excellent	Good-Excellent	Good	Good-Excellent	Excellent	Excellent	Good-Excellent	Poor	
EPDM - ER	H	BA, CA, DA	30-95	3000	600	Good	300°F	-60°F	-80°F	Excellent	Poor	Poor	Poor	Poor-Fair	Excellent	Excellent	Good-Excellent	
Polycrylate	E	DF, DH	25-85	2500	400	Good	350°F	-20°F	-40°F	Excellent	Poor-Fair	Poor	Poor	Good-Excellent	Poor-Fair	Poor-Fair	Poor	
Butyl	D	AA	20-80	3000	800	Good	212°F	-70°F	-90°F	Good-Excellent	Poor	Poor	Poor	Poor	Good-Excellent	Excellent	Good-Excellent	
Halo Butyl	P	BA, CA	30-90	3000	800	Good	250°F	-70°F	-90°F	Good-Excellent	Poor	Poor	Poor	Poor	Good-Excellent	Excellent	Good-Excellent	
Polyurethane	K	BG	40-95	5000	700	Poor	250°F	-50°F	-70°F	Good-Excellent	Fair-Good	Fair-Good	Good	Good	Fair	Poor-Fair	Poor	
Polysulfide	L	AK, BK	30-90	1500	500	Poor	200°F	-40°F	-60°F	Good	Good	Good	Good	Excellent	Fair	Poor	Good-Excellent	
SBR (GRS)	I	AA, BA	40-80	3500	600	Good	158°F	-55°F	-85°F	Poor	Poor	Poor	Poor	Poor	Good-Excellent	Fair-Good	Good	
Natural Rubber	I	AA	30-90	4500	700	Good-Excellent	158°F	-55°F	-85°F	Poor-Fair	Poor	Poor	Poor	Poor	Excellent	Fair-Good	Good	
Ethylene Acrylic (Vamac®)	L	EF	40-90	2500	700	Good-Excellent	350°F	-40°F	-60°F	Excellent	Poor-Fair	Poor	Poor	Good	Good-Excellent	Fair	Poor	
PNF® (Fluoroelastomer)	C	EK	35-90	2000	200	Good	350°F	-70°F	-90°F	Excellent	Good-Excellent	Fair-Good	Good	Excellent	Fair-Good	Poor-Fair	Poor	
AFLAS® (Fluoroelastomer)	C	HK	60-95	3200	400	Good	400°F	+15°F	-50°F	Excellent	Fair	Fair	Fair	Excellent	Excellent	Excellent	Fair	

Hypalon, Viton, and Vamac are DuPont Reg. Trademarks / Fluorel and Kel-F are 3M Company Trademarks

PNF (fluoroelastomer) is a Firestone Tire & Rubber Co. Trademark / AFLAS is a Asahi Glass Co. Trademark

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