

Thermoset

ASTM Designation (ASTM D1418)	EP	CR	NBR	NR	IIR	VMQ	FVMQ	FKM
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Tensile Strength (psi)	>2000	>2000	>2000	>2000	>2000	>1200	>1200	>1400
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Hardness Range (Durometer A)	40-90	20-80	50-95	50-70	40-75	40-80	40-70	70-90
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Tear Resistance	G	G	F	G	G	F	P	F
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Abrasion Resistance	G to E	VG	G	E	G	P	F	G
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Compression Set	G	G	G	E	F	VG	E	E
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Resilience Cold	G	G	G	G	P	E	G	F
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Resilience Hot	VG	VG	G	F	VG	E	E	E
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Radiation Resistance	O	G	P	F to G	G	G	E	E
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Impermeability to Gases	G	G	G	F	O	F	E	P
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Acid Resistance /FONT>

Acid Resistance								
Mild Dilute	E	E	F to G	F to P	E	E	E	O

Strong Concentrate	G	G	F to G	P	G	F	G	E
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Solvent Resistance								
Aliphatic Hydrocarbons	P	F to G	E	P	P	P	G	E

Aromatic Hydrocarbons	P	P	P	P	P	P	E	E
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Oxygenated (Ketones, etc)	G	P	P	P	G	P	F	F
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Resistance To:								
Swelling in Lubricating Oil	P	G	VG	P	P	P	E	O

Oil and Gasoline	P	G	E	P	P	F	G	E
Animal Oils	F	F	E	P	F	G	E	E
Water Absorption	VG	G	VG	VG	VG	E	E	E
Oxidation	E	VG	G	F to P	E	E	O	G
Ozone	O	VG	F	F to P	F to G	E	O	E
Sunlight Aging	O	VG	P	F to P	VG	E	E	G
Heat Aging	VG	G	G	G to F	G	O	E	E
Low Temperature	VG	G	F to G	G	G	O	G	F
Flame	P	G	P	P	P	F	E	E
Vegetable Oils	F	G	G	P	F	P	E	E
Chlorinated Hydrocarbons	P	P	F	P	P	P to F	F	G
Common Name— Base Polymer	EDPM or EP Rubber	Neoprene	Nitrile or NBE or Buna-N	Natural Rubber	Butyl Isobutylene Isoprene	Silicone	Fluoro- silicone	Fluoro- carbon
Chemical Name	Ethylene Propylene	Chloroprene	Acrylonitrile Butadiene	Natural Isoprene	Isoprene	Silicone	Fluoro- silicone	Fluoro- carbon

E = Excellent VG = Very Good G = Good F = Fair P = Poor