

Elastomers	Apple Material Designation	ASTM D1418 Designation	ASTM D2000/SAE J200 Type, Class	Economy	Low/High Temp. Limits °F	Tensile Strength	Elongation Maximum (%)	Hardness Shore A	Resilience-Rebound	Compression Set	Adhesion To Metals	Abrasion Resistance	Tear Resistance	Weather Resistance	Ozone Resistance	Water Swell Resistance	Steam Resistance	Gas Impermeability	Acid Resistance Under 300° F	Alkali Resistance	Alcohol Resistance, Conc.	Lubricating Oils Petroleum Based	Aliphatic Hydrocarbons	Aromatic Hydrocarbons	Halogenated Hydrocarbons	Phosphate Ester (Skydro®)	Polar Solvents (ketones)	
Tetrafluoroethylene/Propylene (Aflas®)	AF	FKM	HK	P	+14 to +446	F	400	60-90	F-G	F-G	F	G	F	E	E	G	E	G	E	G	G	F	F-G	F-P	G	F		
Butyl	BU	IIR	AA; BA	F	-50 to +250	F-G	800	30-90	P	F-G	G	F-G	G	G-E	G-E	E	G	E	G	G-E	E	P	P	P	P	G	G	
Chloroprene (Neoprene®)	CR	CR	BC; BE	G	-40 to +250	F	600	40-90	G-E	F-G	G-E	G-E	G	G-E	G-E	F-G	F	G-E	P	P	G-E	G	F	P	P	P	P	
Epichlorohydrin	EH	CO; ECO	CH	F	-40 to +275	F	400	50-90	GG	G	F-G	G	E	G-E	G	F-G	P	E	F	F	E	G-E	G	E	P	P	P	
Ethylene Acrylic (Vamac®)	VA	AEM	EE; EF; EG	F	-13 to +338	F	450	50-90	F	G	G	G	G	E	E	G	P	G-E	P-G	P-G	F	G	G	P	F-G	P	P	
Ethylene-Propylene	EP	EPM; EPDM	AA; BA; CA; DA	E	-40 to +275	G	600	40-95	G	F-G	F-G	G	F-G	E	E	E	E	F	E	E	E	P	P	P	P	E	E	
Fluorocarbon	VT	FKM	HK	F	-13 to +446	F	300	55-90	F-G	G	F-G	G	F-G	E	E	G	P	G-E	E	P	F-G	E	E	E	E	P	P	
Fluorosilicone	FS	FVMQ	FK	P	-75 to +400	P	600	40-80	G	G-E	F-P	P	P-F	E	E	E	P	P	G	F-E	G	E	F-G	F-G	F-P	F-P	P	
Natural Rubber	NA	NR	AA	G	-58 to +158	G-E	700	40-90	E	G-E	E	E	E	P	P	E	P	F-P	F-G	G-E	G	P	P	P	P	P	F-G	
Nitrile (Buna-N)	BN	NBR; XNBR	BF; BG; BK; CH	E	-40 to +257	G	600	40-90	G	G	G-E	G-E	G	P-F	P	G	P	G-E	F-G	G	G-E	E	G-E	F	F-P	P	P	
Nitrile, Hydrogenated	ZT	HNBR	DH	F	-30 to +300	G-E	340	50-90		G-E		G-E	G	G	G	G	P	G	F-G	P-G	E	E	G-E	F-P	P	P	P	
Perfluoroelastome (Kalrez®, Chemraz®)	KA	FFKM	KK	P	-13 to +600	F-G	120 to 190	65-90	G	F	G-E	G-E	F	E	E	G	E	G-E	E	G	E	E	E	E	E	P	E	P
Polyacrylate	PY	ACM	DF; DH	F	-25 to +300	F	600	40-90	FF	G	F-G	F-G	E	E	P	P	P	P	P	P	E	F-G	E	F-P	P	P	P	
Polysulfide	TH	T	AK; BK	P	-50 to +225	P	400	50-80	F	P	P	P	P	G-E	E	P	P	G-E	P	P	G-E	F	G-E	F-G	F-P	P	F-G	
Polytetrafluoroethylene (Teflon®)	TF	FEP	▲	P	-300 to +450	F	300	98	P	G	P	P-G	P	E	E	E	E	G	E	F-E	E	E	E	E	G-E	P	E	
Polyurethane, Cast	CP	▲	▲	P	-30 to +175	E	650	70&90	F-G	G-E	E	E	E	E	G	G	F-G	P	G-E	P-G	P	P	G	G	G	F-P	P	P
Polyurethane, Millable	MP	AU; EU	BG	F	-30 to +175	G-E	500	40-90	G-E	P-G	E	E	E	E	G	G	P	P	G-E	P	P	P	G	F	P	P	P	
Silicone	SL	MQ; PMQ VMQ; PVMQ	FC; FE; GE	G	-85 to +400	P	800	5-80	F-G	G-E	G	P	P	E	E	E	F-P	P	F-G	F-G	G-E	P	P	P	P	F-P	P	
Styrene Butadiene	SB	SBR	AA; BA EG	E	-50 to +212	G	600	40-90	P	G	G	P-G	F-G	G	G	E	P	F-G	F-G	F-G	G-E	P	P	P	P	P	F	

E=Excellent G=Good F=Fair P=Poor ▲=No designation at time of publication Blank=Information not available or conflicting