

PHYSICAL PROPERTIES and RELATIVE PERFORMANCE CHARACTERISTICS of ELASTOMERS

Chemical Name	NON-OIL RESISTANT				OIL RESISTANT				EXOTIC ELASTOMER				
	Natural Rubber Cls 1,4 Polyisoprene	Butyl Polyisobutylene	SBR, Buna S, GRS Styrene-Butadiene	EPDM, EPT, EPR Ethylene-Propylene	Neoprene Polychloroprene	Nitrile, Buna N Butadiene-Acrylonitrile	Hypalon Chlorosulfonated Polyethylene	Silicone Polysiloxane	Fluoroelastomer Vinylidene Fluoride	Viton FKM, FFKM	Silicone Polysiloxane	MQ, VMQ, PVMQ FC FE GE	25-85 1300(10.5) 800 1.10 Excellent
ASTM Designation ASTM/SAE Classes(es)	UR AA, BA	SBR AA, BA	EPDM AA, BA, CA, DA	CR BC, BE, CH	NBR BC, BE, BF, BG, BK, CH	CSM BG, CE, CH	FC FE GE	FKM, FFKM	HK	MQ, VMQ, PVMQ FC FE GE	25-85 1300(10.5) 800 1.10 Excellent	60-100 1800(12.5) 350 1.82 Fair	
Durometer Range (A)	30-90	40-100	35-100	30-90	30-100	40-90	25-85	60-100	60-100	25-85	1300(10.5)	1800(12.5)	
Tensile, max. psi (Mpa)	2000(14.0)	3000(21.0)	3000(24.5)	3000(28.0)	3000(28.0)	2000(14.0)	3000(10.5)	1800(12.5)	1800(12.5)	3000(10.5)	1300(10.5)	1800(12.5)	
Elongation, max. %	800	500	500	800	600	650	800	350	350	800	1300(10.5)	1800(12.5)	
Specific Gravity	0.91	0.92	0.86	1.23	0.98	1.10	1.10	1.82	1.82	1.10	1.10	1.82	
Compression Set	Fair-Good	Good	Good-Excellent	Good	Good	Good	Excellent	Fair	Fair	Excellent	Excellent	Fair	
Electrical Resistivity	Excellent	Excellent	Excellent	Excellent	Poor-Good	Poor-Fair	Excellent	Fair	Fair	Excellent	Excellent	Excellent	
Flame Resistance	Poor	Poor	Poor	Poor	Good-Excellent	Poor-Fair	Good-Excellent	Excellent	Excellent	Good-Excellent	Good-Excellent	Excellent	
Gas Impermeability	Good	Fair	Good	Good	Good	Good-Excellent	Good	Good	Good	Good	Good	Good	
Impact Resistance	Excellent	Excellent	Good	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair	
Abrasion Resistance	Excellent	Excellent	Good	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair	
Tear Resistance	Excellent	Fair-Good	Fair	Fair	Good	Good	Good	Poor-Fair	Poor-Fair	Good	Good	Poor-Fair	
Continuous Temperature Max.	175 F	175 F	250 F	225 F	225 F	250 F	250 F	400 F	450 F	250 F	250 F	450 F	
Intermittent Temperature max.	210 F	225 F	325 F	300 F	300 F	300 F	300 F	500 F	600 F	300 F	300 F	600 F	
Stiffening Point Temperature	-30 F	-30 F	-40 F	0 F	0 F	-30 F	-30 F	-75 F	+10 F	-75 F	-75 F	+10 F	
Brittle Point Temperature	-75 F	-75 F	-90 F	-50 F	-50 F	-50 F	-50 F	-120 F	-20 F	-120 F	-120 F	-20 F	
Weatherability	Fair-Good	Fair	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
Oxidation Resistance	Good	Fair	Good-Excellent	Fair-Good	Fair-Good	Fair-Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
Ozone Resistance	Poor	Poor	Excellent	Good	Good	Poor-Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
300 F Steam Resistance	Poor	Poor	Excellent	Poor	Poor	Poor	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
Aliphatics (isooctane)	Poor	Poor	Poor	Poor	Fair-Good	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Poor	Poor	Excellent	
Aromatics (Toluene)	Poor	Poor	Poor	Poor	Poor	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Poor	Poor	Excellent	
Halogenated Solvents	Poor	Poor	Poor	Poor	Poor	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Poor	Poor	Excellent	
Gasoline (Unleaded)	Poor	Poor	Poor	Poor	Poor	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Poor	Poor	Excellent	
Gasohol (Ethyl)	Poor	Poor	Poor	Poor	Poor	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Poor	Poor	Excellent	
Alcohols	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
Wagner Brake Fluid	Good	Excellent	Excellent	Excellent	Excellent	Fair	Fair	Poor	Poor	Fair	Fair	Poor	
Transmission Fluid	Poor	Poor	Poor	Poor	Good	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	
Silicate Hydraulic Fluid	Poor	Poor	Poor	Poor	Good	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	
Phosphate Hydraulic Fluid	Poor	Poor	Poor	Poor	Good	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	
Water	Excellent	Excellent	Excellent	Excellent	Good	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Fair	Fair	Poor	
Acids (cold 20%)	Fair	Good-Excellent	Excellent	Excellent	Fair	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Excellent	Excellent	Excellent	
Bases (cold 20%)	Good	Good-Excellent	Excellent	Excellent	Good	Good-Excellent	Good-Excellent	Good-Excellent	Good-Excellent	Good	Good	Good	



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