MERRYWEATHER FOAM, INC.

An ISO9002 Certified Company

PRODUCT COMPARISON TABLE

	Natural Rubber	Silicone	EPDM	Neoprene	Nitrile	Flurocarbon	SBR	Urethane
Chemical Name	Polyisoprene	Polysiloxane	Ethylene Propylene	Chloroprene	Acrylonitirle Butadiene	Fluroinated Hydrocarbon	Styrene Butadiene	Polyester/ Polyether Urethane
SAE 2000- ASTM D-2000	AA	FC, FE, GE	BA, CA, DA	BC, BE	BF, BG, BK	HK	AA, BA	BG
Classification								
ASTM Designation (D-1418)	NR	Psi, Pvsi, Si, Vsi	EPDM, EPR	CR	NBR	FKM	SBR	AU, EU
Physical Properties								
Specific Gravity	0.93	0.95 to 1.20	0.86	1.23	1.00	1.4 to 1.95	0.94	1.05 to 1.25
Durometer, Range	30-100	25-90	30-90	40-95	30-90	55-90	40-100	55-100
Tensile Strength	E	F-G	VG	VG	VG	VG	F-G	E
Elongation	VG-E	VG-E	G	G	G	F-G	G	G-VG
Compression Set	G	G-E	G	F-G	G	G-E	G	G-E
Heat Resistance	F	E	VG-E	F-G	G	E	F-G	F-G
Resilience or Rebound	E	G	G	VG	F-G	F	F-G	F-E
Impact Resistance	E	P-G	G	G	F	E	E	G-E
Abrasion Resistance	E	P-F	G-E	G-E	G-E	F-G	G-E	E
Tear Resistance	E	P-F	F-G	F-G	F-G	F	F	E
Cut Growth	E	P-F	G	G	G	P-F	G	G-E
Flame Resistance	P	F-G	P	G	G	VG-E	P	P-F
Impermeability, Gas	F	F-G	F-G	F-G	G	E	F	P-F
Weathering Resistance	P-F	E	E	VG	F-G	E	F	G-E

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Low Temperature Limit	-10° to –50° F	-65° to –150° F	-20° to –60° F	-10° to –50° F	-30° to –40° F	+10° to –40° F	-0° to –50° F	-10° to –50° F
High Temperature Limit	158° to 225° F	400° to 550° F	300° to 350° F	225° F	275° F	400° to 450° F	158° to 225° F	250° F
Chemical Resistance Properties								
Acid	F-G	F	G	G	G	G	F-G	P-F
Alcohols	G	G	F-G	VG	F-G	F-E	G	F-G
Aliphatic Hydrocarbon Solvents	P	P-F	P	G	E	E	P	G
Alkali	F	P	VG	E	VG	E	F	P
Animal and Vegetable Oils	F	G	G	G	VG	E	F	G
Aromatic Hydrocarbon Solvents	P	P-F	P	P-F	F-G	E	P	P-F
Oil & Gasoline	P	P-F	P	F-G	G-E	E	P	G-E
Oxygenated Solvents	G	F	VG	P-F	P	P	G	P
Water	E	G-E	E	G	G-E	G	G-E	G

Key: E=Excellent; VG=Very Good; G=Good; F=Fair; P=Poor

The range of properties that can be developed for any given polymer is limited by the material and will vary within that range with compound formulation. All properties in a particular class are not found in a single compound. If is often possible to raise or lower some rating to acceptable levels through mixing compounds.