



REDCO

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Properties and Characteristics of Rubber

E - Excellent G - Good F - Fair P - Poor
 * Except Aromatics ** Ketone esters *** Alcohols

Properties and Characteristics of Rubber

	Natural Rubber	SBR	Neoprene®	Butyl	Nitrile	EPDM	Urethane	Silicone	Fluoro-Carbon	Hypalon®	Acrylic
Specific Gravity	.93	.94	1.23	.92	1.00	.85	1.05	.95	1.85	1.1	1.09
Tensile Strength, psi											
Pure Gum	4000	1000	2500	1500	600	300	4000	0	1800-3000	2100	400
Reinforced	3000	3000	2500	2000	3000	2500	3000	1200	2500-3500	2800	1800
Practical shore A hardness range	30-95	40-95	40-95	40-75	20-95	40-90	40-90	20-80	60-95	45-95	40-90
Resilience											
Room temperature	E	G	G	P	F	G-E	G	G	P	G	P
Hot	E	G	G	G	F	G-E	G	F	F	E	E
Tear Resistance	E	F-G	G	G	F	F-G	G	F-G	F-G(gum) E-G(rein)	F	F
Abrasion Resistance	E	G-E	E	F-G	E	G-E	E Plus	F	G-E	E	G
Atmosphere Aging Resistance	P	P	E	G-E	F	E	F	E	E	E	E
Oxidation Resistance	G	G	G	G-E	F	E	E	E	E	E	E
Heat Resistance	F-G	F-G	G	G-E	G	E	F-G	E	E	E	E
Low Temp. Flexibility	E	G	F	F	F	G-E	F	E	F	F	P
Compression Set	F-G	F-G	P(GN) G(W)	F	G	F-G	E	E	F-G	F	G
Permeability	F	F	G	E	E	G-E	G	F	G-E	G	G
Flame Resistance	P	P	E	P	P	P	P	F-G	E	G	F
Acid Resistance											
Dilute	G	F-G	E	E	G	G-E	F	G	E	E	E
Concentrated	F-G	F-G	G	E	F	G-E	P	P	E	E	P
Moisture Resistance	G-E	G-E	F	E	E	E	G	E	E(perox) F(amine)	E	F
Solvent Resistance											
Hydrocarbons	P	P	F*	P	G-E	P	G	F	E	F	G
Oxygenated Solvents	G	G	P	E	P	E	G	G	P**G***	F	P
Oil and Gasoline	P	P	G	P	E	P	G	F	G	F	E
Animal and vegetable oils	P-G	P-G	G	E	E	G	G	G	G	F	E
Dielectric Properties	G-E	G	G	G-E	P	E	G	E	G	G	P

Neoprene and Hypalon are registered trademarks of DuPont Dow Elastomers.