

Elastomer Physical and Analytical Testing

SUPPORT SERVICES

RubberMill can provide the typical tests commonly required for new product development. Costs vary according to specific customer requirements.

TEST METHOD	DESCRIPTION	ASTM #
PHYSICAL TESTING		
Abrasion	NBS	D-1630
Abrasion	Taber	D-3389, D-1044
Adhesion Testing		D-413, D-429
Bashore Resilience		D-2632
Brittle Point	Pass/Fail	D-2137, D-746
Brittle Point	Find	D-2137, D-746
Capillary Rheology		D-3835
Coefficient of Friction		D-1894
Coefficient of Thermal Expansion		D-696
Compression Deflection		D-575
Compression Set	Method A	D-395
Compression Set	Method B	D-395
Demattia Flex		D-813
Density of Specific Gravity		D-297, D-792
Dielectric Strength	AC/DC	D-149
Environmental Stress Crack	Per Week	D-1693
Flexural Modulus	Strength	D-790
Flexural Modulus	Cantilever	D-747
Fluid Resistance	Per Week	D-471
Gardner Impact		D-3029
Gehman or Clash-Berg Stiffness		D-1053, D-1043
Goodyear Healy Rebound		D-1054
Heat Aging	Per Week	D-573
Heat Deflection	Vicat Softening	D-648, D-1525
Hot Tear Resistance		D-624
Izod	Charpy Impact	D-256
Melt Flow Index		D-1238
Mooney Viscosity		D-1646
Moisture Vapor Transmission		E-96
Ozone Resistance		D-395
Permeability	Air, Water, O ₂ N ₂	D-1149, D-1171
Ross Flex		D-1052
Tear Resistance	B, C, Trouser	D-624, D-1938
Temperature of Retraction		D-1329
Tensile Properties		D-412, D-638, D-1414
Texas Flex		D-3629
Volume Resistivity	DC	D-257, D-991
Young's Modulus		D-797
TEST METHOD		
ANALYTICAL TESTING		
Polymer Identification by FT-IR		D-3677
Rubber Compound Analysis	Standard Cursory % Chlorine	E-442
Rubber Compound Analysis	Complete % Ash	D-297
Eternal Ash Analysis by AA	% Extractables	D-297
Solution Viscosity		D-2857
Chlorine Ion		D-512
Total Sulfur		D-297
Free Sulfur		D-297
Plasticizer ID by GC/FT-IR		



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Disclaimer: The information contained in this document is to be used as a guide only. RubberMill cannot guarantee the accuracy, or be held responsible for the information's end use.

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