

Table II
Properties of Ethylene Propylene Rubbers

Type	Ethylene Propylene	ENVIRONMENTAL RESISTANCE	
ASTM Designation	EPM, EPDM	Ozone	Outstanding
POLYMER PROPERTIES		Oxidation	Excellent
Density Mg/m ³	0.86	Weathering *	Outstanding
Colorability	Good-Excellent	Water	Excellent
PHYSICAL PROPERTIES		Radiation	Good
Hardness, Durometer	30A-90A	Alkalies	Good-Excellent
Tensile MPa	.34-24.13	Aliphatic	
psi	50-3500	Hydrocarbons	Poor-Good
Modulus (100%) MPa	.69-20.69	Aromatic	
psi	100-3000	Hydrocarbons	Poor
Elongation, %	100-700	Halogenated	
Compression Set,		Hydrocarbons	Fair-Poor
Method B, %	20-60*	Alcohol	Poor-Good
Resilience,		Animal, Vegetable	
Rebound %	40-75	Oils	Fair
Hysteresis Resistance	Good	Acids	
Flex Cracking		Dilute	Excellent
Resistance	Very Good	Concentrated	Fair-Good
Tear Resistance	Fair-Good	Synthetic Lubricants	
Abrasion Resistance	Good-Excellent	(diester)	Fair-Good
Impact Resistance	Very Good	Hydraulic Fluids	
ELECTRICAL PROPERTIES		Silicates	Fair-Good
Vol Res, ohm-cm	2×10^{16} — 1×10^{17}	Phosphates	Good-Excellent
Dielectric Str, v/mil	500-1000	Permeability to Gases	Medium
Dielectric Constant		Limiting Oxygen	
60 cycles	2.25-3.0	Index	10-20
10 ⁶ cycles	2.2-2.85	USES	Electrical insulation, jacketing; footwear, sponge, proofed fabrics; auto weather strip, hose, belts; automotive molded parts, appliance parts; parts requiring outstand- ing ozone and heat resistance.
THERMAL PROPERTIES			
Service Temperature, °C/°F			
Min. for Cont. Use	57/70		
Max for Cont. Use	177/350		

*70 hrs. @ 100°C/212°F