

EMI Conductive Rubber, LLC

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Polyurethane

Common Name	Polyurethane
ASTM D-2000 Classification	BG
General Characteristics	
Durometer Range (Shore A)	35 - 100
Tensile Range (P.S.I.)	500 - 6000
Elongation (Max. %)	750
Compression Set	Poor
Resilience - Rebound	Good
Abrasion Resistance	Excellent
Tear Resistance	Excellent
Solvent Resistance	Poor
Oil Resistance	Good
Low Temperature Usage (F°)	-10° to -30°
High Temperature Usage (F°)	to 175°
Aging Weather - Sunlight	Excellent
Adhesion to Metal	Fair to Good

Description

Polyurethane comes with two types. The castable types have excellent abrasion resistance; good compression set at high hardness levels; low friction surface; tensile strengths up to 6000 psi; good ozone resistance; good oil and solvent resistance; and poor heat and hot water resistance.

The millable types of polyurethane are more popular and widely use in today applications. Through the use of reinforcing pigments and other chemicals, desirable characteristics can be obtained to fit a variety of applications; wear resistance is excellent and greatly superior to most other polymers. Good oil resistance. However, it is not recommended for use in water or heat above 175°F. Polyurethane is not normally attacked by moderate chemicals and hydrocarbon. It is generally attacked by concentrated acids, ketones, esters, chlorinated and nitro hydrocarbons.