

A. Schulman POLYTROPE™ TPP 503 Injection Molding Grade Olefinic Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE , Thermoplastic Olefinic Elastomer (TPO)

Material Notes:

Description Polytrope TPP 503 is an injection molding grade olefinic thermoplastic elastomer. This product is recommended for parts requiring flexibility and high impact strength at sub-ambient temperatures. TPP 503 is UV stable, paintable and pigmentable. Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-POLYTROPE-TPP-503-Injection-Molding-Grade-Olefinic-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength, Yield	17.2 MPa	2500 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
Flexural Modulus	0.241 GPa	35.0 ksi	ASTM D790
Gardner Impact	36.0 J @Temperature -30.0 °C	26.6 ft-lb @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-45.0 °C	-49.0 °F	

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