

Multibase Multi-Flex[®] D 4502 TPO Thermoplastic Polyolefin Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyolefin

Material Notes:

Features: Chemical Resistance, Good Paintable Ozone Resistant Thermal Stability, Good Density, Low Tear Strength, Good Scratch Resistant

Forms: Pellets Processing Method: Injection Molding Uses: Automotive Applications Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-D-4502-TPO-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.892 g/cc	0.892 g/cc	ASTM 792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	10 seconds; ASTM D2240
Tensile Strength, Yield	12.8 MPa	1850 psi	Elastic; ASTM D412
Elongation at Break	450 %	450 %	Elastic; ASTM D412
Flexural Modulus	0.469 GPa	68.0 ksi	ASTM D790
Tear Strength	96.4 kN/m	550 pli	ASTM D624

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 - 199 °C	350 - 390 °F	
Middle Barrel Temperature	199 - 221 °C	390 - 430 °F	
Front Barrel Temperature	221 - 232 °C	430 - 450 °F	
Nozzle Temperature	6.11 - 232 °C	43.0 - 450 °F	
Melt Temperature	232 °C	450 °F	
Mold Temperature	37.8 °C	100 °F	

Descriptive Properties	Value	Comments
Clamp Tonnage	2-4 tons/in ²	
Screw L/D Ratio	20:1	

Descriptive Properties	Value	Comments
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