

Multibase Multi-Flex[®] D 4701 TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Features: Chemical Resistance, Good Colorability, Good Elasticity, High Electrically Insulating Flame Retardant Flexibility, Good Heat Stabilized Ozone Resistant Processability, Good UV Resistance, Good Impact Resistance, High Impact Resistance, Low Temp.

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-D-4701-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM 792
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	44	44	10 seconds; ASTM D2240
Tensile Strength, Yield	11.7 MPa	1700 psi	at 100%; ASTM D412
	15.9 MPa	2300 psi	Elastic; ASTM D412
Elongation at Break	350 %	350 %	Elastic; ASTM D412
Flexural Modulus	0.565 GPa	82.0 ksi	ASTM D790
Tear Strength	91.2 kN/m	520 pli	ASTM D624

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	210 °C	410 °F	
Front Barrel Temperature	227 °C	440 °F	
Nozzle Temperature	235 °C	455 °F	
Mold Temperature	51.7 °C	125 °F	
Drying Temperature	51.7 °C	125 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	3.45 - 4.83 MPa	500 - 700 psi	
Back Pressure	0.345 MPa	50.0 psi	

<small>Screw Speed</small> Processing Properties	<small>40 mm</small> Metric	<small>40 mm</small> English	Comments
Descriptive Properties			
Clamp Tonnage		1.5-2.5 tons/in ²	
Injection Rate		Fast	
Suggested Max Regrind		0.5	

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