

Multibase Multi-Flex® D 4400 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 Forms: Pellets Processing Method: Injection Molding Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-D-4400-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM 792
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 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	7.17 MPa	1040 psi	at 100%; ASTM D412
	11.7 MPa	1700 psi	Elastic; ASTM D412
Elongation at Break	480 %	480 %	Elastic; ASTM D412
Flexural Modulus	0.359 GPa	52.0 ksi	ASTM D790
Tear Strength	59.6 kN/m	340 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 Processing Properties	0.345 MPa Metric	50.0 psi English	Comments
Screw Speed	40 rpm	40 rpm	

Descriptive Properties	Value	Comments
Clamp Tonnage	1.5-2.5 tons/in ²	
Injection Rate	Fast	
Suggested Max Regrind	0.5	

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