

Multibase Multi-Flex® D 3804 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 Paintable 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-3804-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM 792
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	7.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	10 seconds; ASTM D2240
Tensile Strength, Ultimate	13.4 MPa	1950 psi	ASTM D638
Elongation at Break	650 %	650 %	ASTM D638
Flexural Modulus	0.241 GPa	35.0 ksi	1% Secant; ASTM D790
Tear Strength	59.6 kN/m	340 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-50.0 Â°C	-58.0 Â°F	ASTM D746
Flame Spread	18 mm/min	0.71 in/min	FM VSS-302

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	210 Â°C	410 Â°F	
Front Barrel Temperature	227 Â°C	440 Â°F	
Nozzle Temperature	235 Â°C	455 Â°F	
Mold Temperature	51.7 Â°C	125 Â°F	
Drying Temperature	51.7 Â°C	125 Â°F	

Processing Properties	Metric ^{ur}	English ^{ur}	Comments
Injection Pressure	3.45 - 4.83 MPa	500 - 700 psi	
Back Pressure	0.345 MPa	50.0 psi	
Screw Speed	40 rpm	40 rpm	

Descriptive Properties	Value	Comments
Clamp Tonnage	1.5-2.5 tons/in ²	
Fogging	Min. 90	SAE-J275
Injection Rate	Fast	
Suggested Max Regrind	0.5	

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