

Multibase Multi-Flex[®] D 3204 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-3204-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.975 g/cc	0.975 g/cc	ASTM 792
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	6.75 g/10 min @Load 2.16 kg, Temperature 230 °C	6.75 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	10 seconds; ASTM D2240
Tensile Strength, Ultimate	11.7 MPa	1700 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
Flexural Modulus	0.100 GPa	14.5 ksi	1% Secant; ASTM D790
Tear Strength	57.8 kN/m	330 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-50.0 °C	-58.0 °F	ASTM D746
Flame Spread	27.9 mm/min	1.10 in/min	FM VSS-302

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	

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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