

Multibase Multi-Flex[®] A 3005 TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Features: Chemical Resistance, Good Colorability, Good Elasticity, High Electrically Insulating Flame Retardant Flexibility, Good Hardness, Low Foamable Heat Stabilized General Purpose Ozone Resistant Processability, Good Soft 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-A-3005-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ASTM 792
Melt Flow	6.0 g/10 min	6.0 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 A	35	35	10 seconds; ASTM D2240
Tensile Strength, Yield	0.862 MPa	125 psi	at 100%; ASTM D412
	6.89 MPa	1000 psi	Elastic; ASTM D412
Elongation at Break	700 %	700 %	Elastic; ASTM D412
Tear Strength	28.0 kN/m	160 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	
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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