

Multibase Multi-Flex[®] A 7455 ER 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 Processability, Good Forms: Pellets Processing

Method: Extrusion Injection Molding Uses: Fuel Lines Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-A-7455-ER-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM 792
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 Å°C	@Load 4.76 lb, Temperature 446 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	10 seconds; ASTM D2240
Tensile Strength, Yield	8.27 MPa	1200 psi	Elastic; ASTM D412
Elongation at Break	500 %	500 %	Elastic; ASTM D412
Tear Strength	43.8 kN/m	250 pli	ASTM D624

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	210 Å°C	410 Å°F	
Front Barrel Temperature	227 Å°C	440 Å°F	
Nozzle Temperature	235 Å°C	455 Å°F	
Die Temperature	204 Å°C	400 Å°F	
Melt Temperature	191 - 204 Å°C	375 - 400 Å°F	
Mold Temperature	51.7 Å°C	125 Å°F	
Drying Temperature	51.7 Å°C	125 Å°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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