

Multibase Multi-Flex[®] D 4107 C Black TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Features: Chemical Resistance, Good Colorability, GoodElasticity, HighElectrically InsulatingFlame RetardantFlexibility, GoodHeat StabilizedOzone ResistantProcessability, GoodUV Resistance, Good Impact Resistance, GoodForms: PelletsProcessing Method: Injection Molding Uses: Automotive Exterior PartsInformation provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-D-4107-C-Black-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ASTM 792
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 Â°C	@Load 4.76 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	10 seconds; ASTM D2240
Tensile Strength, Yield	13.1 MPa	1900 psi	Elastic; ASTM D412
	11.0 MPa @Strain 100 %	1600 psi @Strain 100 %	ASTM D412
Elongation at Break	600 %	600 %	Elastic; ASTM D412
Flexural Modulus	0.276 GPa	40.0 ksi	ASTM D790
Tear Strength	87.7 kN/m	500 pli	ASTM D624

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	
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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