

Multibase Multi-Flex® A 4001 LCS Black TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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-4001-LCS-Black-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM 792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	2.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	33	33	10 seconds; ASTM D2240
Tensile Strength, Yield	5.52 MPa	800 psi	Elastic; ASTM D412
	0.827 MPa @Strain 100 %	120 psi @Strain 100 %	ASTM D412
Elongation at Break	600 %	600 %	Elastic; ASTM D412
Tear Strength	17.5 kN/m	100 pli	ASTM D624
Compression Set	11 %	11 %	73Â°F, 70 hours; ASTM D395
	39 %	39 %	158Â°F, 70 hours; ASTM D395

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	

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