

**Multibase Multi-Flex<sup>®</sup> A 5001 E LC Black TPE Thermoplastic Elastomer**

Category : Polymer , Thermoplastic , Elastomer, TPE

**Material Notes:**

Forms: Pellets Processing Methods: Injection Molding Extrusion Information provided by Multibase

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-Multi-Flex-A-5001-E-LC-Black-TPE-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-A-5001-E-LC-Black-TPE-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM 792
Water Absorption	0.060 %	0.060 %	ASTM D570
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
Ash	21 %	21 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	46	46	10 seconds; ASTM D2240
Tensile Strength, Yield	5.52 MPa	800 psi	Elastic; ASTM D412
	1.10 MPa @Strain 100 %	160 psi @Strain 100 %	ASTM D412
Elongation at Break	600 %	600 %	Elastic; ASTM D412
Tear Strength	19.3 kN/m	110 pli	ASTM D624
Compression Set	13 %	13 %	73Â°F, 70 hours; ASTM D395
	24 %	24 %	158Â°F, 70 hours; ASTM D395

Processing Properties	Metric	English	Comments
Die Temperature	204 Â°C	400 Â°F	
Melt Temperature	191 - 204 Â°C	375 - 400 Â°F	

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