

Multibase Multi-Flex® A 8103 E Black TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-A-8103-E-Black-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM 792
Melt Flow	2.0 g/10 min	2.0 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	80	80	10 seconds; ASTM D2240
Tensile Strength, Yield	8.96 MPa	1300 psi	Elastic; ASTM D412
	4.65 MPa	675 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	620 %	620 %	Elastic; ASTM D412
Flexural Modulus	0.0689 GPa	10.0 ksi	1% Secant; ASTM D790
Tear Strength	43.8 kN/m	250 pli	ASTM D624
Compression Set	40 %	40 %	73°F, 70 hours; ASTM D395
	71 %	71 %	158°F, 70 hours; ASTM D395

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	177 °C	350 °F	
Front Barrel Temperature	182 °C	360 °F	
Nozzle Temperature	191 °C	375 °F	
Die Temperature	204 °C	400 °F	
Melt Temperature	191 - 204 °C	375 - 400 °F	

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