

Multibase Multi-Flex[®] A 4710 S 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-4710-S-Black-TPE-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM 792
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	10 g/10 min	10 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	49	49	10 seconds; ASTM D2240
Tensile Strength, Yield	5.17 MPa	750 psi	Elastic; ASTM D412
	1.21 MPa	175 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	700 %	700 %	Elastic; ASTM D412
Tear Strength	21.0 kN/m	120 pli	ASTM D624
Compression Set	22 %	22 %	73°F, 70 hours; ASTM D395
	75 %	75 %	158°F, 70 hours; ASTM D395

Thermal Properties	Metric	English	Comments
Flame Spread	25 mm/min	1.0 in/min	VSS-302

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	210 °C	410 °F	
Front Barrel Temperature	227 °C	440 °F	
Nozzle Temperature	235 °C	455 °F	
Mold Temperature	51.7 °C	125 °F	

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