

Network Polymers Softflex® 0809

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

Description: Softflex® Thermoplastic Elastomer Alloy Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-Softflex-0809.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.925 g/cc	0.925 g/cc	ASTM D792
Linear Mold Shrinkage	0.017 - 0.020 cm/cm @Thickness 3.17 mm	0.017 - 0.020 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	3.0 g/10 min @Load 1.00 kg, Temperature 235 °C	3.0 g/10 min @Load 2.20 lb, Temperature 455 °F	Procedure A Condition Q; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	31	31	10 second dwell; ASTM D2240
	36	36	Instantaneous; ASTM D2240
Tensile Strength, Yield	4.54 MPa	659 psi	chs 20 in/min; ASTM D412
Elongation at Break	605 %	605 %	ASTM D412
Gardner Impact	137.1 J @Temperature -30.0 °C	101.1 ft-lb @Temperature -22.0 °F	ASTM D5420
Taber Abrasion, mg/1000 Cycles	1.1797	1.1797	H22 Wheel 1000 g load/1000 cycles; ASTM D3389
Compression Set	19.9 %	19.9 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395
	76.2 % @Temperature 70.0 °C	76.2 % @Temperature 158 °F	22 hours at 25% deflection; ASTM D395, Method B,
	82.4 % @Temperature 100 °C	82.4 % @Temperature 212 °F	22 hours at 25% deflection; ASTM D395, Method B,
Tensile Set	4.9 %	4.9 %	100% strain; ASTM D412

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