

Network Polymers Softflex® 7000

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-7000.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm @Thickness 3.17 mm	0.0040 - 0.0050 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0080 cm/cm @Thickness 3.17 mm	0.0030 - 0.0080 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	18.7 g/10 min @Load 5.00 kg, Temperature 200 °C	18.7 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238
	100.2 g/10 min @Load 1.00 kg, Temperature 235 °C	100.2 g/10 min @Load 2.20 lb, Temperature 455 °F	Procedure A Condition Q; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	67 - 77	67 - 77	Instantaneous; ASTM D2240
Tensile Strength, Yield	24.7 MPa	3580 psi	chs 20 in/min; ASTM D412
Elongation at Break	730 %	730 %	ASTM D412
50% Modulus	0.00210 GPa	0.305 ksi	ASTM D412
100% Modulus	0.00300 GPa	0.435 ksi	ASTM D412
300% Modulus	0.00520 GPa	0.754 ksi	ASTM D412
Tear Strength	66.5 kN/m	379 pli	
Taber Abrasion, mg/1000 Cycles	3.0	3.0	H22 Wheel 1000 g load/1000 cycles; ASTM D3389
Compression Set	25 %	25 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395

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