

Network Polymers Softflex® 0826

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-0826.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.947 g/cc	0.947 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	2.1 g/10 min	2.1 g/10 min	Procedure A Condition Q; ASTM D1238
	@Load 1.00 kg, Temperature 235 °C	@Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	31 - 41	31 - 41	10 second dwell; ASTM D2240
	35 - 45	35 - 45	Instantaneous; ASTM D2240
Tensile Strength, Yield	6.89 MPa	1000 psi	chs 20 in/min; ASTM D412
Elongation at Break	846 %	846 %	ASTM D412
50% Modulus	0.000700 GPa	0.102 ksi	ASTM D412
100% Modulus	0.00100 GPa	0.145 ksi	ASTM D412
300% Modulus	0.00200 GPa	0.290 ksi	ASTM D412
Gardner Impact	12.51 J	9.225 ft-lb	ASTM D5420
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	21.0 kN/m	120 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	0.2929	0.2929	H22 Wheel 1000 g load/1000 cycles; ASTM D3389
Compression Set	14.4 %	14.4 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395
	76.6 %	76.6 %	

Mechanical Properties	@Temperature 70.0 °C Metric	@Temperature 158 °F English	Comments
Tensile Set	15.5 %	15.5 %	100% strain; ASTM D412

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