

Network Polymers Softflex® 2701

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-2701.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.994 g/cc	0.994 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.17 mm	0.0080 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	5.0 g/10 min @Load 1.00 kg, Temperature 235 °C	5.0 g/10 min @Load 2.20 lb, Temperature 455 °F	Procedure A Condition Q; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45 - 55	45 - 55	10 second dwell; ASTM D2240
	48 - 58	48 - 58	Instantaneous; ASTM D2240
Tensile Strength, Yield	11.33 MPa	1643 psi	chs 20 in/min; ASTM D412
Elongation at Break	873 %	873 %	ASTM D412
50% Modulus	0.00150 GPa	0.218 ksi	ASTM D412
100% Modulus	0.00200 GPa	0.290 ksi	ASTM D412
300% Modulus	0.00340 GPa	0.493 ksi	ASTM D412
Gardner Impact	27.0 J @Temperature -30.0 °C	19.9 ft-lb @Temperature -22.0 °F	ASTM D5420
Taber Abrasion, mg/1000 Cycles	0.0589	0.0589	H22 Wheel 1000 g load/1000 cycles; ASTM D3389
Compression Set	22 %	22 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395
	72.5 % @Temperature 70.0 °C	72.5 % @Temperature 158 °F	22 hours at 25% deflection; ASTM D395, Method B,

Mechanical Properties	89.2 % Metric	89.2 % English	Comments
	@Temperature 100 °C	@Temperature 212 °F	25% deflection; ASTM D395, Method B,
Tensile Set	3.8 %	3.8 %	

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