

Network Polymers Softflex® 0921

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-0921.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.985 g/cc	0.985 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	14.3 g/10 min	14.3 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	18 g/10 min	18 g/10 min	Procedure A Condition Q; ASTM D1238
	@Load 1.00 kg, Temperature 235 °C	@Load 2.20 lb, Temperature 455 °F	
	30.9 g/10 min	30.9 g/10 min	Procedure A Condition L; ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	43 - 53	43 - 53	10 second dwell; ASTM D2240
	46 - 56	46 - 56	Instantaneous; ASTM D2240
Tensile Strength, Yield	6.69 MPa	970 psi	chs 20 in/min; ASTM D412
Elongation at Break	770 %	770 %	ASTM D412
50% Modulus	0.00138 GPa	0.200 ksi	ASTM D412
100% Modulus	0.00172 GPa	0.249 ksi	ASTM D412
300% Modulus	0.00296 GPa	0.429 ksi	ASTM D412
Flexural Modulus	0.0109 GPa	1.58 ksi	
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
Tear Strength	27.1 kN/m	155 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	0.1525	0.1525	H22 Wheel 1000 g load/1000 cycles; ASTM D3389
Compression Set	24.4 %	24.4 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395
	80.8 % @Temperature 70.0 °C	80.8 % @Temperature 158 °F	22 hours at 25% deflection; ASTM D395, Method B,
	95.6 % @Temperature 100 °C	95.6 % @Temperature 212 °F	22 hours at 25% deflection; ASTM D395, Method B,
Tensile Set	6.7 %	6.7 %	

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