

Network Polymers Softflex® 2910

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-2910.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	0.30 g/10 min	0.30 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	10 second dwell; ASTM D2240
	91	91	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	31.6 J	23.3 ft-lb	ASTM D5420
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Taber Abrasion, mg/1000 Cycles	0.2409	0.2409	H22 Wheel 1000 g load/1000 cycles; ASTM D3389
Compression Set	38.5 %	38.5 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395
	95.5 %	95.5 %	
	@Temperature 70.0 °C	@Temperature 158 °F	22 hours at 25% deflection; ASTM D395, Method B,

Mechanical Properties	97.9 % Metric	97.9 % English	Comments
	@Temperature 100 °C	@Temperature 212 °F	ASTM D395, Method B, 25% deflection;
Tensile Set	3.8 %	3.8 %	

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