

Network Polymers Softflex® 0954

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-0954.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.032 cm/cm	0.032 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.036 cm/cm	0.036 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	28.9 g/10 min	28.9 g/10 min	Procedure A Condition Q; ASTM D1238
	@Load 1.00 kg, Temperature 235 °C	@Load 2.20 lb, Temperature 455 °F	
	30.8 g/10 min	30.8 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	64 - 74	64 - 74	10 second dwell; ASTM D2240
	68 - 78	68 - 78	Instantaneous; ASTM D2240
Tensile Strength, Yield	9.535 MPa	1383 psi	chs 20 in/min; ASTM D412
Elongation at Break	811 %	811 %	ASTM D412
50% Modulus	0.00257 GPa	0.373 ksi	ASTM D412
100% Modulus	0.00327 GPa	0.474 ksi	ASTM D412
300% Modulus	0.00490 GPa	0.711 ksi	ASTM D412
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	45.5 kN/m	260 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	0.2382	0.2382	H22 Wheel 1000 g load/1000 cycles; ASTM D3389

Mechanical Properties	Metric	English	Comments
	78.4 % @Temperature 70.0 °C	78.4 % @Temperature 158 °F	Method B, 22 hours at 25% deflection @Temperature 158 °F, ASTM D395
	96.4 % @Temperature 100 °C	96.4 % @Temperature 212 °F	22 hours at 25% deflection; ASTM D395, Method B,
Tensile Set	7.4 %	7.4 %	

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