

Network Polymers Softflex® 5000

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-5000.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.877 g/cc	0.877 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0229 cm/cm	0.0229 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0153 cm/cm	0.0153 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	1.1 g/10 min	1.1 g/10 min	Procedure A Condition Q; ASTM D1238
	@Load 1.00 kg, Temperature 235 °C	@Load 2.20 lb, Temperature 455 °F	
	3.5 g/10 min	3.5 g/10 min	
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	Procedure A Condition L; ASTM D1238
	5.4 g/10 min	5.4 g/10 min	
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	10 second dwell; ASTM D2240
	45 - 55	45 - 55	Instantaneous; ASTM D2240
Tensile Strength at Break	8.83 MPa	1280 psi	chs 20 in/min; ASTM D412
Elongation at Break	>= 1000 %	>= 1000 %	ASTM D412
50% Modulus	0.000740 GPa	0.107 ksi	ASTM D412
100% Modulus	0.000950 GPa	0.138 ksi	ASTM D412
300% Modulus	0.00163 GPa	0.236 ksi	ASTM D412
Flexural Modulus	0.00536 GPa	0.777 ksi	Test Method I (chs speed 0.5 in/min); ASTM D790
Tear Strength	21.1 kN/m	120 pli	Die C/20"/min; ASTM D624

Mechanical Properties	Metric	English	Comments
Compression Set	18.9 %	18.9 %	22 hours at 25% deflection and 23 °C, ASTM D395
	89.4 %	89.4 %	22 hours at 25% deflection; ASTM D395, Method B,
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	6.8 %	6.8 %	

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