

Network Polymers Softflex® 0615

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-0615.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.994 g/cc	0.994 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	8.3 g/10 min	8.3 g/10 min	Procedure A Condition Q; ASTM D1238
	@Load 1.00 kg, Temperature 235 °C	@Load 2.20 lb, Temperature 455 °F	
	27 g/10 min	27 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	48 - 58	48 - 58	10 second dwell; ASTM D2240
	50 - 60	50 - 60	Instantaneous; ASTM D2240
Tensile Strength, Yield	7.79 MPa	1130 psi	chs 20 in/min; ASTM D412
Elongation at Break	750 %	750 %	ASTM D412
50% Modulus	0.00138 GPa	0.200 ksi	ASTM D412
100% Modulus	0.00179 GPa	0.260 ksi	ASTM D412
300% Modulus	0.00448 GPa	0.650 ksi	ASTM D412
Flexural Modulus	0.0150 GPa	2.17 ksi	ASTM D790
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	28.4 kN/m	162 pli	ASTM D624

Taber Abrasion, mg/1000 Cycles Mechanical Properties	0.192 Metric	0.192 English	H22 Wheel 1000 g load/1000 cycles; ASTM D3359 Comments
Compression Set	18.4 %	18.4 %	Method B, 22 hours at 25% deflection and 23°C; ASTM D395
	67.9 % @Temperature 70.0 °C	67.9 % @Temperature 158 °F	22 hours at 25% deflection; ASTM D395, Method B,
	88.4 % @Temperature 100 °C	88.4 % @Temperature 212 °F	22 hours at 25% deflection; ASTM D395, Method B,
Tensile Set	9.3 %	9.3 %	100% strain; ASTM D412

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