

Diamond Polymers Softflex® 6538 Thermoplastic Elastomer Alloy, Clear

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-Softflex-6538-Thermoplastic-Elastomer-Alloy-Clear.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	Direction of Flow; ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	Transverse to Flow; ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	3.8 g/10 min	3.8 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 175 °C	@Load 4.76 lb, Temperature 347 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 65	55 - 65	ASTM D2240
Tensile Strength at Break	57.2 MPa	8300 psi	chs 20 in/min; ASTM D412
Tensile Strength, Yield	15.2 MPa	2200 psi	chs 20 in/min; 50% elongation; ASTM D412
	20.7 MPa	3000 psi	
	41.3 MPa	5990 psi	chs 20 in/min; 300% elongation; ASTM D412
Elongation at Break	360 %	360 %	chs 20 in/min; ASTM D412
Flexural Modulus	0.2549 GPa	36.97 ksi	chs 0.05 in/min; ASTM D790

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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