

Premix Thermoplastics PRESEAL® TPE 6070

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

PRESEAL TPE 6070 is a thermoplastic elastomer based highly conductive compound intended primarily for EMI gasketing and grounding applications. Conductivity is achieved with a silver coated glass sphere and fiber combination. PRESEAL TPE 6070 can be injection molded like an ordinary thermoplastic elastomer thus giving great new possibilities in gasket design and mass production. It has adhesion to selected thermoplastics and insert molding to metal is also possible. It can also be used in co-injection molding e.g. molding the gasket directly in the phone casing. Recyclability is an added value. The material is silicone free. Typical applications include soft EMI gaskets in mobile phones, mobile phone base stations and other wireless communication environment as well as military applications. * Tension test bar according to ISO 527 Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRESEAL-TPE-6070.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ISO 7619
Tensile Strength, Ultimate	0.300 MPa	43.5 psi	ISO 37*
Tensile Strength, Yield	0.400 MPa	58.0 psi	ISO 37*
Elongation at Break	120 %	120 %	ISO 37*
Elongation at Yield	13 %	13 %	ISO 37*
Modulus of Elasticity	0.00250 GPa	0.363 ksi	ISO 178
Compressive Modulus	0.0340 GPa	4.93 ksi	At 15% Compression; ISO 7743
	0.0340 GPa	4.93 ksi	At 10% Compression; ISO 7743
	0.0390 GPa	5.66 ksi	At 18% Compression; ISO 7743
Tear Strength	3.30 kN/m	18.8 pli	ISO 34-C
Compression Set	40 %	40 %	At 85°C, 24 hours; ISO 815:1991

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0030 ohm-cm	<= 0.0030 ohm-cm	ISO Mil-G-835388
Shielding Effectiveness	100 dB	100 dB	ISO ARP1705, 20-700 MHz

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	200 °C	392 °F	Zones 1-5
Nozzle Temperature	200 °C	392 °F	
Injection Velocity	25.0 mm/sec	0.984 in/sec	
Drying Temperature	60.0 °C @Time 10800 sec	140 °F @Time 3.00 hour	Pre-drying; If stored for longer than 1 year
Moisture Content	<= 0.040 %	<= 0.040 %	When Produced
Hold Pressure	0.000 MPa	0.000 psi	
Back Pressure	0.300 MPa	43.5 psi	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Yellowish	
Cooling Time, sec	25	
Holding Time, sec	5	
Injection Time, sec	0.7	
Plasticizing Speed, %	25-80	Max 480 rev/min

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