

Premix Thermoplastics PRESEAL® TPE 6071

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

PRESEAL TPE 6071 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 6071 can be extruded like an ordinary thermoplastic elastomer thus giving great new possibilities in mass production. It has adhesion to selected thermoplastics, which opens construction possibilities with co-extrusion e.g. in making combined weather/dust/EMI gaskets. Recyclability is an added value. The material is silicone free. Typical applications include EMI gaskets in mobile phones, mobile phone * Tension test bar according to ISO 527 base stations and other wireless communication environment as well as in military applications. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRESEAL-TPE-6071.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	ISO 7619
Tensile Strength, Ultimate	0.700 MPa	102 psi	ISO 37*
Tensile Strength, Yield	0.700 MPa	102 psi	ISO 37*
Elongation at Break	290 %	290 %	ISO 37*
Elongation at Yield	150 %	150 %	ISO 37*
Modulus of Elasticity	0.00400 GPa	0.580 ksi	ISO 178
Compressive Modulus	0.0480 GPa	6.96 ksi	At 10% Compression; ISO 7743
	0.0500 GPa	7.25 ksi	At 15% Compression; ISO 7743
	0.0520 GPa	7.54 ksi	At 18% Compression; ISO 7743
Tear Strength	6.40 kN/m	36.5 pli	ISO 34-C
Compression Set	50 %	50 %	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	180 °C	356 °F	Zone 2; Cylinder
	180 °C	356 °F	Zone 1; Cylinder
	190 °C	374 °F	Zone 3; Cylinder
	190 °C	374 °F	Zone 4; Cylinder
	200 °C	392 °F	Zone 5; Cylinder
	200 °C	392 °F	Zone 6; Cylinder
Die Temperature	200 °C	392 °F	Zones 1-5
Drying Temperature	60.0 °C	140 °F	Pre-drying; If stored for longer than 1 year
	@Time 10800 sec	@Time 3.00 hour	
Moisture Content	<= 0.040 %	<= 0.040 %	When Produced
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Grey	

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