

Premix Thermoplastics PRESEAL® TPE 5020

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

General Description:PRESEAL® TPE 5020 is a thermoplastic elastomer based highly conductive compound intended primarily for EMI gasket applications. It may also find interesting uses as conductors or in grounding applications. Conductivity is achieved with nickel-coated graphite. PRESEAL® TPE 5020 can be injection-moulded like an ordinary thermoplastic elastomer thus giving great new possibilities in gasket design and mass production. It has adhesion to selected thermoplastics and metal contacts are also arranged. It can also be used in co-injection moulding e.g. moulding the gasket directly in the phone casing. Recyclability is an added value. The material is silicone free.**Applications:**Typical applications include soft EMI gaskets in mobile phones, mobile phone base stations and other wireless communication environment as well as military application.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRESEAL-TPE-5020.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.34 g/cc	2.34 g/cc	
Density	2.35 g/cc	0.0850 lb/in ³	
Viscosity	70000 cP	70000 cP	
	@Shear Rate 400 1/s, Temperature 200 °C	@Shear Rate 400 1/s, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ISO 7619
	55	55	ASTM D2240
Tensile Strength at Break	1.30 MPa	189 psi	ISO 37
	1.30 MPa	189 psi	ASTM D638
Tensile Strength, Yield	1.40 MPa	203 psi	ASTM D638
	1.40 MPa	203 psi	ISO 37
Elongation at Break	200 %	200 %	ISO 37
	200 %	200 %	ASTM D638
Elongation at Yield	150 %	150 %	ISO 37
	150 %	150 %	ASTM D638
Modulus of Elasticity	0.00240 GPa	0.348 ksi	ASTM D790
	0.00240 GPa	0.348 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Tear Strength	4.10 kN/m	23.4 pli	ISO 34-C
Compression Set	20 % @Temperature 85.0 °C	20 % @Temperature 185 °F	24h; 815:1991

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.030 ohm-cm	0.030 ohm-cm	Mil-G-835388
	0.030 ohm-cm	0.030 ohm-cm	ASTM D257
Shielding Effectiveness	90 dB	90 dB	20-700MHz; ARP1705
	90 dB	90 dB	ASTM D790

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 °C	392 °F	
Middle Barrel Temperature	200 °C	392 °F	
Front Barrel Temperature	200 °C	392 °F	
Nozzle Temperature	200 °C	392 °F	
Mold Temperature	70.0 °C	158 °F	
Injection Velocity	25.0 mm/sec	0.984 in/sec	0.7s
Moisture Content	<= 0.040 %	<= 0.040 %	when produced
Hold Pressure	0.000 MPa	0.000 psi	
Back Pressure	0.300 MPa	43.5 psi	

Descriptive Properties	Value	Comments
Appearance	granule	
Color	Gray	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China