

## Premix Thermoplastics PRESEAL® TPE 6080

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

**General Description:**PRESEAL® TPE 6080 is a thermoplastic elastomer based highly conductive compound intended primarily for EMI gasket applications. It can also be used as conductors or in grounding applications. Conductivity is achieved with silver-coated glass. PRESEAL® TPE 6080 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. This opens up construction possibilities with 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-6080.php](http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRESEAL-TPE-6080.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	
Density	1.85 g/cc	0.0670 lb/in <sup>3</sup>	
Viscosity	75000 cP	75000 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	60	60	ISO 7619
	60	60	ASTM D2240
Tensile Strength at Break	0.800 MPa	116 psi	ASTM D638
	0.800 MPa	116 psi	ISO 37
Tensile Strength, Yield	1.00 MPa	145 psi	ASTM D638
	1.00 MPa	145 psi	ISO 37
Elongation at Break	60 %	60 %	ISO 37
	60 %	60 %	ASTM D638
Elongation at Yield	28 %	28 %	ISO 37
	28 %	28 %	ASTM D638
Modulus of Elasticity	0.00250 GPa	0.363 ksi	ISO 178
	0.00500 GPa	0.725 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
	300 GPa	ksi	pression; ISO 7743
	0.0000500 GPa	0.00725 ksi	at 20% compression; ISO 7743
Tear Strength Test	28	28	psi; ASTM D638
Tear Strength	4.10 kN/m	23.4 pli	ISO 34-C
Compression Set	26 %	26 %	24h; 815:1991
	@Temperature 85.0 °C	@Temperature 185 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.010 ohm-cm	0.010 ohm-cm	ASTM D257
	0.010 ohm-cm	0.010 ohm-cm	Mil-G-835388
Shielding Effectiveness	100 dB	100 dB	ASTM D790
	100 dB	100 dB	20-700MHz; ARP1705

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](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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