

PRESEAL® TPE 6080

Thermoplastic Elastomer

Premix Oy

Message:

PRESEAL ® TPE 6080 is a novel 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 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 interesting 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. Typical applications include soft EMI gaskets in mobile phones, mobile phone base stations and other wireless communication environment as well as military application.

General Information			
Features	Conductive		
	Recyclable Material		
Uses	Adhesives		
	Gaskets		
Appearance	Yellow		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.85	g/cm ³	ISO 1183
Viscosity ¹	75.0	Pa · s	
Compression Modulus			ISO 7743
At 10% compression	0.0300	MPa	
At 20% compression	0.0500	MPa	
Shielding Effectiveness - 20 to 700 MHz ²	100	dB	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2.50	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Yield	1.00	MPa	
--	0.800	MPa	
Tensile Elongation			
Yield ³	28	%	ASTM D412
Break	60	%	ISO 37
Tear Strength	4.1	kN/m	ISO 34-1
Compression Set (85°C, 24 hr)	26	%	ISO 815
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity ⁴	0.010	ohms · cm	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	3.0	hr	
NOTE			
1.	200°C		
2.	ARP 1705		
3.	ISO 37		
4.	Mil-G-83528 8		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

