

PRESEAL® TPE 6070

Thermoplastic Elastomer

Premix Oy

Message:

PRESEAL ® TPE 6070 is a novel thermoplastic elastomer based highly conductive compound intended primarily for EMI gasketing and grounding applications. Conductivity is achieved with a silver coated glass sphere and fibre combination. PRESEAL TPE 6070 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 insert moulding to metal is also possible. This opens 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 applications.

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
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	55		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	0.400	MPa	
--	0.300	MPa	
Tensile Elongation			
Yield ¹	13	%	ASTM D412
Break	120	%	ISO 37
Tear Strength	3.3	kN/m	ISO 34-1
Compression Set (85°C, 24 hr)	40	%	ISO 815
Compression Modulus			ISO 7743
At 10% compression	0.0340	MPa	
At 15% compression	0.0340	MPa	
At 18% compression	0.0390	MPa	
Shielding Effectiveness - 20 to 700 MHz ²	100	dB	
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity ³	3.0E-3	ohms·cm	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	3.0	hr	
NOTE			
1.	ISO 37		
2.	ARP 1705		
3.	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



WECHAT