

PRESEAL® TPE 5020

Thermoplastic Elastomer

Premix Oy

Message:

PRESEAL ® TPE 5020 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 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. 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.

General Information			
Features	Conductive		
	Recyclable Material		
Uses	Adhesives		
	Gaskets		
Appearance	Grey		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	2.34	g/cm ³	ISO 1183
Viscosity ¹	70.0	Pa · s	
Shielding Effectiveness - 20 to 700 MHz ²	90	dB	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	55		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2.40	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Yield	1.40	MPa	
--	1.30	MPa	
Tensile Elongation			
Yield ³	150	%	ASTM D412
Break	200	%	ISO 37
Tear Strength	4.1	kN/m	ISO 34-1
Compression Set (85°C, 24 hr)	20	%	ISO 815
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁴	0.030	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 C	

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