

Premix Thermoplastics PRE-ELEC® TPE 1503 Conductive Thermoplastic Compound

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

PRE-ELEC® TPE 1503 is a conductive thermoplastic compound based on a thermoplastic elastomer (TPE). Conductivity is achieved by using a special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC® TPE 1503 has retained the excellent mechanical properties of the base elastomer. Typical applications included extruded profiles, sheets and injection moulded technical parts. Processing: PRE-ELEC® TPE 1503 compound can be extruded or injection moulded in the machines using normal processing conditions as with TPE. Test Specimen: 10[mm] wide moulded rod Information from Premix OY

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-TPE-1503-Conductive-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	
Thickness	102 microns	4.00 mil	
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 190 °C	2.0 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	ISO 868
Tensile Strength	1.20 MPa @Strain 100 %	174 psi @Strain 100 %	ISO 527
	1.80 MPa @Strain 200 %	261 psi @Strain 200 %	ISO 527
	2.30 MPa @Strain 300 %	334 psi @Strain 300 %	ISO 527
Elongation at Break	>= 800 %	>= 800 %	ISO 527
Compression Set	16 % @Temperature 23.0 °C, Time 259000 sec	16 % @Temperature 73.4 °F, Time 72.0 hour	ISO 815:1991

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 300 ohm-cm	<= 300 ohm-cm	ISO D-257
	<= 10000 ohm	<= 10000 ohm	

Surface Resistance Electrical Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	ISO IEC 61340-5-1 Comments
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Processing Properties	Metric	English	Comments
Zone 1	170 °C	338 °F	Cylinder
	210 °C	410 °F	Die
Zone 2	180 °C	356 °F	Cylinder
	210 °C	410 °F	Die
Zone 3	190 °C	374 °F	Cylinder
	210 °C	410 °F	Die
Zone 4	200 °C	392 °F	Cylinder
	210 °C	410 °F	Die
Zone 5	210 °C	410 °F	Die
	210 °C	410 °F	Cylinder
Melt Temperature	180 - 210 °C	356 - 410 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Roll Temperature	50.0 °C	122 °F	3rd Roll
	60.0 °C	140 °F	1st Roll
	60.0 °C	140 °F	2nd Roll
Drying Temperature	<= 65.0 °C	<= 149 °F	Pre-drying
Dry Time	1 - 2 hour	1 - 2 hour	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Injection Pressure (psi)	Low-Medium	
Injection Speed	Medium-High	

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