

Premix Thermoplastics PRE-ELEC® TPE 1501 Conductive Thermoplastic Compound

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

PRE-ELEC® TPE 1501 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 1501 has retained the excellent mechanical properties of the base elastomer. Applications: Extruded profiles, sheets and injection moulded technical parts. Processing: PRE-ELEC® TPE 1501 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-1501-Conductive-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Thickness	102 microns	4.00 mil	
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	ISO 294-4
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 190 °C	11 g/10 min @Load 22.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength	6.70 MPa	972 psi	ISO 527
Tensile Strength, Yield	6.70 MPa	972 psi	ISO 527
Elongation at Break	390 %	390 %	ISO 527
Elongation at Yield	390 %	390 %	ISO 527

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1000 ohm-cm	<= 1000 ohm-cm	ISO D-257
Surface Resistance	<= 1.00e+6 ohm @Thickness 3.00 mm	<= 1.00e+6 ohm @Thickness 0.118 in	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Zone 1	170 °C	338 °F	Cylinder

Processing Properties	Metric	English	Comments
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 - 3 hour	1 - 3 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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