

Premix Thermoplastics PRE-ELEC® ABS 1415 Conductive Thermoplastic Compound

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Carbon Black Filled

Material Notes:

PRE-ELEC® ABS 1415 is a conductive thermoplastic compound based on ABS. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC® ABS 1415 has excellent mechanical properties and is easy to extrude. Applications: Extrusion of multi-layer sheet with natural HIPS, ABS or conductive or natural TPE. Processing PRE-ELEC® ABS 1415 compound can be processed in the machines using normal processing conditions as with ABS. 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-ABS-1415-Conductive-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Thickness	102 microns	4.00 mil	
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ISO 294-4
Melt Flow	2.5 g/10 min @Load 10.0 kg, Temperature 220 °C	2.5 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	ISO 868
Film Tensile Strength at Yield, MD	40.0 MPa @Thickness 0.400 mm	5800 psi @Thickness 0.0157 in	ISO 527
Film Elongation at Break, MD	10 % @Thickness 0.400 mm	10 % @Thickness 0.0157 in	ISO 527
Film Elongation at Break, TD	6.0 % @Thickness 0.400 mm	6.0 % @Thickness 0.0157 in	ISO 527
Film Elongation at Yield, MD	4.0 % @Thickness 0.400 mm	4.0 % @Thickness 0.0157 in	ISO 527
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Thickness 4.00 mm, Temperature -20.0 °C	3.81 ft-lb/in ² @Thickness 0.157 in, Temperature -4.00 °F	ISO 180

Mechanical Properties	Metric	English	Comments
	15.0 kJ/m ² @Thickness 4.00 mm, Temperature 23.0 °C	7.14 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched (ISO)	60.0 kJ/m ² @Thickness 4.00 mm, Temperature -20.0 °C	28.6 ft-lb/in ² @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	NB @Thickness 102 mm, Temperature 23.0 °C	NB @Thickness 4.00 in, Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.50 J/cm ² @Thickness 102 mm, Temperature -20.0 °C	7.14 ft-lb/in ² @Thickness 4.00 in, Temperature -4.00 °F	ISO 179
	1.70 J/cm ² @Thickness 102 mm, Temperature 23.0 °C	8.09 ft-lb/in ² @Thickness 4.00 in, Temperature 73.4 °F	ISO 179
Film Tensile Strength at Break, MD	22.0 MPa @Thickness 0.400 mm	3190 psi @Thickness 0.0157 in	ISO 527
Film Tensile Strength at Break, TD	22.0 MPa @Thickness 0.400 mm	3190 psi @Thickness 0.0157 in	ISO 527

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	75/Method Af
Vicat Softening Point	91.0 °C	196 °F	ISO 306/B50
	104 °C	219 °F	ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+6 ohm-cm	<= 1.00e+6 ohm-cm	ISO D-257
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments

Zone 1 Processing Properties	200 °C Metric	392 °F English	Cylinder Comments
	240 °C	464 °F	Die
Zone 2	210 °C	410 °F	Cylinder
	230 °C	446 °F	Die
Zone 3	220 °C	428 °F	Die
	220 °C	428 °F	Cylinder
Zone 4	230 °C	446 °F	Die
	230 °C	446 °F	Cylinder
Zone 5	240 °C	464 °F	Die
	240 °C	464 °F	Cylinder
Roll Temperature	60.0 °C	140 °F	3rd Roll
	80.0 °C	176 °F	2nd Roll
	90.0 °C	194 °F	1st Roll
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

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