

Panipol Oy DXH-PP Inherently Conductive Polymer

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer

Material Notes:

Panipol DXH-PP composition is conductive masterbatch for melt processing mainly with polypropylene. It is based on conductive Polyaniline and resin. Main benefits of Panipol DXH-PP grade are controllable resistance in optimal ESD protection range 10^6 - 10^9 Ω , low sloughing and limited colorability. the conductivity of Panipol DXH-PP / matrix polymer blend is tunable from insulators into matrix polymer chain instead of acting as a filler. The conductive/dissipative property is permanent and built into the polymer chain. Panipol DXH-PP has been developed mainly for injection molding applications. Panipol DXH-PP should be used in 10-18% ratio with PP Heterophasic copolymer to achieve surface resistance values from 10^6 to 10^{10} Ω , (IEC 61340-5-1d). The products made out of Panipol DXH-PP are reusable and recyclable. Typical applications include injection moulded boxes and bins etc. giving permanent ESD protection for the various packaging applications. Information provided by Panipol Oy Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Panipol-Oy-DXH-PP-Inherently-Conductive-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 180

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+6 - 1.00e+7 ohm @Thickness 2.00 mm	1.00e+6 - 1.00e+7 ohm @Thickness 0.0787 in	sheet; IEC 61340-5-1
Static Decay	<= 0.50 sec @Thickness 2.00 mm	<= 0.50 sec @Thickness 0.0787 in	sheet; IEC 61340-5-1

Processing Properties	Metric	English	Comments
Front Barrel Temperature	190 - 220 °C	374 - 428 °F	
Melt Temperature	<= 230 °C	<= 446 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Pressure	75.2 - 120 MPa	10900 - 17400 psi	

Descriptive Properties	Value	Comments
Back Pressure	High	
Injection Speed	High	

Descriptive Properties	Value	Comments
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