

Techmer ES Electrafil® PS-31/EC BK Polystyrene, Electrically Conductive Carbon Black

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Carbon Black Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-PS-31EC-BK-Polystyrene-Electrically-Conductive-Carbon-Black.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	7.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	7.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Strength	29.0 MPa	4200 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm @Thickness 3.17 mm	5.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.1 Â°C	160 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D4496

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 232 Â°C	430 - 450 Â°F	
Middle Barrel Temperature	227 - 243 Â°C	440 - 470 Â°F	
Front Barrel Temperature	221 - 238 Â°C	430 - 460 Â°F	

Nozzle Temperature Processing Properties	216 - 232 Â°C Metric	420 - 450 Â°F English	Comments
Melt Temperature	232 - 243 Â°C	450 - 470 Â°F	
Mold Temperature	48.9 - 65.6 Â°C	120 - 150 Â°F	Use well vented mold
Drying Temperature	71.1 Â°C	160 Â°F	ASTM D648
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	Medium Injection Speed
Screw Speed	60 - 100 rpm	60 - 100 rpm	

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