

Electrafil® PS-31/EC

General Purpose Polystyrene

Techmer Engineered Solutions

Message:

Electrafil® PS-31/EC is a general-purpose polystyrene product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Features include:

ROHS certification

Conductivity

General Information			
UL YellowCard	E253782-484590		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	24.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	15	%	ASTM D638
Flexural Modulus (23°C)	1720	MPa	ASTM D790
Flexural Strength	29.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	71.1	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257
Additional Information			
Surface Resistivity, ASTM D257: 1E3-1E4 ohms/sq			
Injection	Nominal Value	Unit	
Drying Temperature	71.1	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	227 - 243	°C	
Front Temperature	221 - 238	°C	
Nozzle Temperature	216 - 232	°C	

Processing (Melt) Temp	232 - 243	°C
Mold Temperature	48.9 - 65.6	°C
Injection Rate	Moderate	
Back Pressure	0.172 - 0.345	MPa
Screw Speed	60 - 100	rpm

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Recommended distributors for this material

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