

Electrafil® J-50/CF/30/TF/15

Polycarbonate

Techmer Engineered Solutions

Message:

Electrafil® J-50/CF/30/TF/15 is a polycarbonate (PC) product that contains 30% carbon fiber reinforced materials. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Electrafil® The application fields of J-50/CF/30/TF/15 include packaging, engineering/industrial accessories, automobile industry, commercial/office supplies and conveyor belts.

Features include:

ROHS certification

Conductivity

Lubrication

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Conductivity		
	Antistatic property		
	Lubrication		
Uses	Packaging		
	Bushing		
	Conveyor accessories		
	Automotive Electronics		
	Business equipment		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	117	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.7	%	ASTM D638
Flexural Modulus (23°C)	13800	MPa	ASTM D790
Flexural Strength (23°C)	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	143	°C	ASTM D648
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.5E+3	ohms	ASTM D257
Volume Resistivity	55	ohms·cm	ASTM D257

Additional Information

Surface Resistivity, ASTM D257: 1E3-1E4 ohmsVolume Resistivity, ASTM C611: 10-100 ohm-cm

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	8.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	302 - 310	°C
Middle Temperature	310 - 327	°C
Front Temperature	316 - 327	°C
Nozzle Temperature	310 - 321	°C
Processing (Melt) Temp	304 - 321	°C
Mold Temperature	82.2 - 93.3	°C
Injection Rate	Moderate	
Back Pressure	0.00 - 0.172	MPa

Injection instructions

Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well vented moldMoisture Content, as received: Product is packaged at 0.2% or less.

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