Electrafil® J-1/CF/30

Polyamide 66

Techmer Engineered Solutions

Message:

Electrafil®J-1/CF/30 is a polyamide 66 (nylon 66) product, which contains a 30% carbon fiber reinforced material. 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-1/CF/30 include packaging, engineering/industrial accessories, automobile industry, commercial/office supplies and conveyor belts.
Features include:
flame retardant/rated flame
ROHS certification
Conductivity

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Features	Conductivity Antistatic property		
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	1.28	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	20700	MPa	ASTM D638
Tensile Strength (23°C)	248	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus (23°C)	18600	MPa	ASTM D790
Flexural Strength (23°C)	352	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	690	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	263	°C	ASTM D648
1.8 MPa, not annealed	254	°C	ASTM D648
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.5E+2	ohms	ASTM D257
Volume Resistivity	5.5	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Surface Resistivity, ASTM D4496: 100-1000 ohms/sqVolume Resistivity, ASTM C611: 1-10 ohm-cmShielding Effectiveness, ES7-83, 1GHz: 20-30 dB

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	277 - 288	°C
Middle Temperature	288 - 299	°C
Front Temperature	282 - 293	°C
Nozzle Temperature	282 - 288	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	79.4 - 104	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.00 - 0.345	MPa

Injection instructions

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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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