Electrafil® J-1/CF/40

Polyamide 66

Techmer Engineered Solutions

Message:

Electrafil®J-1/CF/40 is a polyamide 66 (nylon 66) product, which contains a 40% 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/40 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, 40% 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	1.33	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	28300	MPa	ASTM D638
Tensile Strength (23°C)	276	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.8	%	ASTM D638
Flexural Modulus (23°C)	23400	MPa	ASTM D790
Flexural Strength (23°C)	407	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	800	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	257	°C	ASTM D648
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	55	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: 10-100 ohmsVolume Resistivity, ASTM C611: 1-10 ohm-cmShielding Effectiveness, ES7-83, 1GHz: 30-40 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

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