Electrafil® J-1/CF/30/TF/13/SI/2

Polyamide 66

Techmer Engineered Solutions

Message:

Electrafil®J-1/CF/30/TF/13/SI/2 is a polyamide 66 (nylon 66) product containing 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/TF/13/SI/2 include packaging, engineering/industrial accessories, automobile industry, commercial/office supplies and conveyor belts.
Features include:
flame retardant/rated flame
ROHS certification
Lubrication

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (13%) Silicone lubricant (2%)		
Features	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	1.36	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (23°C)	193	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.5	%	ASTM D638
Flexural Modulus (23°C)	15200	MPa	ASTM D790
Flexural Strength (23°C)	276	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	252	°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	HB		UL 94
Additional Information			
Compressive Strength, ASTM D695, 73°F: 25000 psiSurface Resistivity, ASTM D257: 1E2-1E3 ohmVolume Resistivity, ASTM C611: 1-10 ohm-cm			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	288 - 299	°C	
Middle Temperature	293 - 304	°C	
Front Temperature	282 - 293	°C	
Nozzle Temperature	277 - 288	°C	
Processing (Melt) Temp	293 - 304	°C	
Mold Temperature	79.4 - 104	°C	
Injection Rate	Moderate		
Back Pressure	0.345	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.			

Recommended distributors for this material

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