Electrafil® J-1/CF/15/TF/20

Polyamide 66

Techmer Engineered Solutions

Message:

Electrafil®J-1/CF/15/TF/20 is a polyamide 66 (nylon 66) product, which contains a 15% 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/15/TF/20 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, 15% filler by weight		
Additive	PTFE lubricant (20%)		
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	1.33	g/cm^3	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength (Break, 23°C)	165	MPa	ASTM D638
Flexural Modulus (23°C)	10300	MPa	ASTM D790
Flexural Strength (Break, 23°C)	238	MPa	ASTM D790
Compressive Strength	138	MPa	ASTM D695
Shear Strength	75.8	MPa	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.11		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	75	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	257	°C	ASTM D648
1.8 MPa, not annealed	250	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	5.0E+2	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Additional Information			
Surface Resistivity, ASTM D257: 1E2-1E3 ohm/sq			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	73.9 - 104	°C	
Drying Time	2.0 - 16	hr	
Rear Temperature	282 - 293	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	277 - 288	°C	
Nozzle Temperature	271 - 282	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	54.4 - 93.3	°C	

Recommended distributors for this material

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