

Electrafil® J-71/CF/20/EG

Polyamide 6 Alloy

Techmer Engineered Solutions

Message:

Electrafil® J-71/CF/20/EG is a polyamide 6 alloy (nylon 6 alloy) product, which contains a 20% 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. The main features are: Rohs certification.

General Information			
UL YellowCard	E253782-484581		
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	165	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.5	%	ASTM D638
Flexural Modulus (23°C)	13800	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	50	ohms	ASTM D257
Additional Information			
Surface Resistivity, ASTM D4496: 10-100 ohms/sq			
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	252 - 271	°C	
Middle Temperature	260 - 277	°C	
Front Temperature	254 - 271	°C	
Nozzle Temperature	254 - 271	°C	
Processing (Melt) Temp	252 - 277	°C	
Mold Temperature	54.4 - 82.2	°C	

Injection Rate	Slow-Moderate	
Back Pressure	0.00 - 0.345	MPa

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Recommended distributors for this material

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