

Electrafil® J-71/CF/40/EG

Polyamide 6 Alloy
Techmer Engineered Solutions

Message:

Electrafil® J-71/CF/40/EG is a Polyamide 6 Alloy (Nylon 6 Alloy) product filled with 40% carbon fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: rohs compliant.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	193	MPa	ASTM D638
Flexural Modulus (23°C)	22400	MPa	ASTM D790
Flexural Strength (Break, 23°C)	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	207	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	252 to 271	°C	
Middle Temperature	260 to 277	°C	
Front Temperature	254 to 271	°C	
Nozzle Temperature	254 to 271	°C	
Processing (Melt) Temp	252 to 277	°C	
Mold Temperature	54.4 to 82.2	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.00 to 0.345	MPa	

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