

Electrafil® J-3/CF/40

Polyamide 6
Techmer Engineered Solutions

Message:
Electrafil® J-3/CF/40 is a Polyamide 6 (Nylon 6) 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. Typical application: Military Applications. Primary characteristic: rohs compliant.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Agency Ratings	MIL B-81705		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
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)	0.10	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24100	MPa	ASTM D638
Tensile Strength (Break, 23°C)	228	MPa	ASTM D638
Flexural Modulus	22100	MPa	ASTM D790
Flexural Strength (Break, 23°C)	345	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	1700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 104	°C	
Drying Time	2.0 to 16	hr	
Rear Temperature	271 to 282	°C	
Middle Temperature	277 to 288	°C	
Front Temperature	266 to 277	°C	
Nozzle Temperature	260 to 271	°C	
Processing (Melt) Temp	271 to 282	°C	
Mold Temperature	54.4 to 82.2	°C	

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