Electrafil® PA6/6 03001

Polyamide 66

Techmer Engineered Solutions

Message:

Electrafil® PA6/6 03001 is a polyamide 66 (nylon 66) product, which contains carbon fiber reinforcement. It can be processed by injection molding and is available in North America.

Features include:

Impact modification

Conductivity

Impact resistance

heat stabilizer

General Information				
Filler / Reinforcement	Carbon fiber reinforced material			
Additive	Impact modifier			
	heat stabilizer			
Features	Conductivity			
	Impact resistance, high			
	Thermal Stability			
Appearance	Black			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.19	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955	
Water Absorption (24 hr)	0.90	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	111		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	121	MPa	ASTM D638	
Tensile Elongation (Break)	3.0	%	ASTM D638	
Flexural Modulus	8270	MPa	ASTM D790	
Flexural Strength	165	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C, 3.18 mm)	190	J/m	ASTM D256	
Unnotched Izod Impact (3.81 mm)	1000	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	252	°C	ASTM D648	
1.8 MPa, not annealed	220	°C	ASTM D648	

CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+4 - 1.0E+6	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	277 - 288	°C	
Front Temperature	271 - 282	°C	
Nozzle Temperature	271 - 282	°C	
Processing (Melt) Temp	277 - 288	°C	
Mold Temperature	79.4 - 104	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.00 - 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.

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