

Electrafil® PA12 CF13 L

Polyamide 12
Techmer Engineered Solutions

Message:

Electrafil® PA12 CF13 L is a Polyamide 12 (Nylon 12) product filled with 13% carbon fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Conductive
Lubricated

General Information			
Filler / Reinforcement	Carbon Fiber, 13% Filler by Weight		
Additive	Lubricant		
Features	Electrically Conductive		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	103	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	7240	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+6	ohms · cm	ASTM D257

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Recommended distributors for this material

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