

Electrafil® PA6 C BK

Polyamide 6

Techmer Engineered Solutions

Message:

Electrafil® PA6 C BK is a Polyamide 6 (Nylon 6) product filled with filler. It can be processed by injection molding and is available in North America.
Primary characteristic: conductive.

General Information			
Filler / Reinforcement	Filler		
Features	Conductive		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.2	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	4340	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	196	°C	
1.8 MPa, Unannealed	127	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+2 to 1.0E+4	ohms · cm	ASTM D257

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Recommended distributors for this material

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