

Electrafil® PA6 GF20 AS BK

Polyamide 6

Techmer Engineered Solutions

Message:

Electrafil® PA6 GF20 AS BK is a Polyamide 6 (Nylon 6) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Antistatic

Heat Stabilizer

Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Antistatic		
	Heat Stabilizer		
	Lubricant		
Features	Antistatic		
	Heat Stabilized		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	89.6	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	5170	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	213	°C	
1.8 MPa, Unannealed	193	°C	
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+10 to 1.0E+12	ohms·cm	ASTM D257
Dielectric Strength ¹	16	kV/mm	ASTM D149
Additional Information	Nominal Value		
TPCI #	8885102		
NOTE			

1. Method A (Short-Time)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

