

Electrafil® ABS GF20 AS

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

Electrafil® ABS GF20 AS is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Antistatic

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Antistatic		
Features	Antistatic		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.17	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	59.3	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	69.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	108	°C	
1.8 MPa, Unannealed	96.1	°C	
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+10 to 1.0E+12	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Static Decay	< 2.0	sec	MIL PRF-81705D
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	HB	UL 94
NOTE		

1.	Method A (Short-Time)
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