

Electrafil® ABS CF10 FR BK

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

Electrafil® ABS CF10 FR BK is an Acrylonitrile Butadiene Styrene (ABS) product filled with 10% carbon fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
Filler / Reinforcement	Carbon Fiber, 10% Filler by Weight		
Features	Flame Retardant		
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)	0.070	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	89.6	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	8760	MPa	ASTM D790
Flexural Strength	132	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	102	°C	
1.8 MPa, Unannealed	98.9	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 1.0E+2	ohms	ASTM D257
Volume Resistivity	1.0 to 1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	76.7 to 87.8	°C
Drying Time	2.0 to 16	hr
Rear Temperature	216 to 232	°C
Middle Temperature	221 to 238	°C
Front Temperature	210 to 221	°C
Nozzle Temperature	199 to 221	°C
Processing (Melt) Temp	232 to 260	°C
Mold Temperature	71.1 to 87.8	°C

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