

Electrafil® ABS SS10 FR BK

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

Electrafil® ABS SS10 FR BK is an Acrylonitrile Butadiene Styrene (ABS) product filled with 10% stainless steel fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Electromagnetic Shielding (EMI)
- Flame Retardant

General Information			
Filler / Reinforcement	Stainless Steel Fiber,10% Filler by Weight		
Features	Electromagnetic Shielding (EMI)		
	Flame Retardant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	46.9	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6000	MPa	ASTM D790
Flexural Strength	79.3	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 (1.8 MPa, Unannealed)	141	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+4	ohms · cm	ASTM D257
EMI Attenuation	40	dB	ASTM D4935
Static Decay	< 0.1	sec	FTMS 101B
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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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

