

Electrafil® ABS 03009

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

Electrafil® ABS 03009 is an Acrylonitrile Butadiene Styrene (ABS) product filled with filler. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Conductive

Electromagnetic Shielding (EMI)

Radio Frequency Shielding (RFI)

General Information			
Filler / Reinforcement	Filler		
Features	Conductive		
	Electromagnetic Shielding (EMI)		
	Radio Frequency Shielding (RFI)		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.28	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	50.3	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	240	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	96.1	°C	
CLTE - Flow	8.5E-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
Shielding Effectiveness ¹	49	dB	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		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	
NOTE			

1. 30 to 1000 MHz

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