Electrafil® J-1200/CF/40

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

Electrafil®J-1200/CF/40 is an acrylonitrile butadiene styrene (ABS) product, which contains a 40% carbon fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Electrafil®The application fields of J-1200/CF/40 include packaging, engineering/industrial accessories, automobile industry, commercial/office supplies and conveyor belts.
Features include:
flame retardant/rated flame
ROHS certification

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Uses	Packaging Bushing Conveyor accessories Automotive Electronics Business equipment		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.24	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, 23°C)	110	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.0	%	ASTM D638
Flexural Modulus (23°C)	15900	MPa	ASTM D790
Flexural Strength (Break, 23°C)	152	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 (23°C, 3.18 mm)	210	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	104	°C	ASTM D648
1.8 MPa, not annealed	102	°C	ASTM D648
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.65	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity	5.0	ohms	ASTM D257
Volume Resistivity	5.0	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			
Volume Resistivity, ASTM C611: 1-10 ohm-cm			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	76.7 - 87.8	°C	
Drying Time	2.0 - 16	hr	
Rear Temperature	216 - 232	°C	
Middle Temperature	221 - 238	°C	
Front Temperature	210 - 221	°C	
Nozzle Temperature	199 - 221	°C	
Processing (Melt) Temp	232 - 260	°C	
Mold Temperature	71.1 - 87.8	°C	

Recommended distributors for this material

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