

Electrafil® J-1305/CF/40

Polyphenylene Sulfide

Techmer Engineered Solutions

Message:

Electrafil® J-1305/CF/40 is a Polyphenylene Sulfide (PPS) product filled with 40% carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Electrafil® J-1305/CF/40 include automotive, business/office goods, conveyors, engineering/industrial parts and packaging.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Uses	Automotive Electronics		
	Bushings		
	Business Equipment		
	Conveyor Parts		
	Packaging		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.050	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	31000	MPa	ASTM D638
Tensile Strength (Yield)	207	MPa	ASTM D638
Tensile Elongation (Yield)	1.0	%	ASTM D638
Flexural Modulus	29600	MPa	ASTM D790
Flexural Strength (Yield)	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Unnotched Izod Impact	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	266	°C	
1.8 MPa, Unannealed	263	°C	
CLTE - Flow	1.3E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	163	°C	
Drying Time	4.0	hr	
Rear Temperature	288 to 304	°C	
Middle Temperature	316 to 343	°C	
Front Temperature	310 to 332	°C	
Nozzle Temperature	316 to 332	°C	
Processing (Melt) Temp	324 to 338	°C	
Mold Temperature	129 to 163	°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

