

Electrafil® PPS 06000

Polyphenylene Sulfide

Techmer Engineered Solutions

Message:

Electrafil® PPS 06000 is a Polyphenylene Sulfide (PPS) product filled with metallic flake. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Conductive

General Information			
Filler / Reinforcement	Metallic Flake		
Features	Electrically Conductive		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	3.69	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	75.8	MPa	ASTM D638
Tensile Elongation (Break)	1.7	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	274	°C	
1.8 MPa, Unannealed	260	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0	ohms	ASTM D257
Volume Resistivity	1.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.399 mm)	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

