Electrafil® PPS GF23 IM BK

Polyphenylene Sulfide

Techmer Engineered Solutions

Message:

Electrafil® PPS GF23 IM BK is a Polyphenylene Sulfide (PPS) product filled with 23% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Conductive
Impact Modified
Impact Resistant

General Information			
Filler / Reinforcement	Glass Fiber,23% Filler by Weight		
Additive	Impact Modifier		
Features	Conductive High Impact Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.53	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	96.5	MPa	ASTM D638
Tensile Elongation (Break)	3.7	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	85	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	257	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+5	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

Recommended distributors for this material

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