China PPS hGR20

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hGR20 is glass reinforced PPS compound, which is filled with glass fiber based on the PPS resin. The characteristic of PPS compounds includes good mechanical properties, high creep resistance, high temperature resistance, friction resistance, flame resistance, chemical resistance, excellent electrical insulation properties, arc resistance, low mold shrinkage, easy processing good dimensional stability, and radiation resistance.
Owing to its high performance, PPS-hGR20 is widely used in electronic appliances, such as: connectors, sockets, frequency dividers, components and shells of various apparatuses and instruments. PPS can be used to make elements where high strength, high temperature resistance, electrical insulation are all-important in aviation. It is also used for precise appliance plugs, high hardness outer shells, and high temperature resistant parts in military.

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Features	Good dimensional stability
	Low friction coefficient
	High strength
	Insulation
	Anti-arc
	Anti-gamma radiation
	Workability, good
	Good creep resistance
	Good chemical resistance
	Heat resistance, high
	Low shrinkage
	Flame retardancy
Uses	Protective cover
	Electrical/Electronic Applications
	Electrical components
	Electrical appliances
	Aircraft applications
	Military application
	Connector
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	Internal method
Molding Shrinkage			Internal method
Flow	0.25	%	Internal method
Transverse flow	0.75	%	Internal method

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness [1]	100		Internal method

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	120	MPa	Internal method
Tensile Elongation (Break)	1.8	%	Internal method
Flexural Modulus	11500	MPa	Internal method
Flexural Strength	172	MPa	Internal method
Compressive Strength	137	MPa	Internal method
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	11	kJ/m^2	Internal method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	264	°C	Internal method
Melting Temperature	281	°C	Internal method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	6.9E+15	ohms	Internal method
Volume Resistivity	1.4E+17	ohms·cm	Internal method
Dielectric Strength	17	kV/mm	Internal method
Dielectric Constant (1 MHz)	4.00		Internal method
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		Internal method
Injection	**Nominal Value**	**Unit**	
Drying Temperature	110 - 140	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	270 - 290	°C	
Middle Temperature	300 - 320	°C	
Front Temperature	300 - 320	°C	
Nozzle Temperature	290 - 320	°C	
Processing (Melt) Temp	160	°C	
Mold Temperature	100 - 150	°C	
Injection Pressure	50.0 - 100	MPa	
Back Pressure	0.100 - 1.00	MPa	
Screw Speed	40 - 100	rpm	
Injection instructions			
Processing time: 2 to 8hr			
NOTE			
1.	HR		

Recommended distributors for this material

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