China PPS hGR30

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hGR30 is glass reinforced PPS compound, which is filled with glass fiber based on the PPS resin. The characteristic of PPS determine the utility of PPS resins and their compounds, which 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, good dimensional stability, and radiation resistance.
Owing to its high performance, PPS-hGR30 can be used to make elements where high temperature resistance, electrical insulation are all-important in aviation; anticorrosion valves and electrical insulation parts in chemical industry; precise plugs, outer shells and high temperature resistant contactors in electronic industry; electric parts, terminal and switches in electric industry; high temperature resistant axle bearing and piston rings in mechanical industry.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability Low friction coefficient High strength Insulation Anti-arc Anti-gamma radiation Good corrosion resistance Good creep resistance Good chemical resistance Heat resistance, high Low shrinkage Flame retardancy		
Uses	Protective cover Electrical/Electronic Applications Electrical components Valve/valve components Aircraft applications Switch		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.55	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	142	MPa	Internal method
Tensile Elongation (Break)	1.7	%	Internal method
Flexural Modulus	11000	MPa	Internal method
Flexural Strength	180	MPa	Internal method
Compressive Strength	140	MPa	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	12	kJ/m^2	Internal method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	267	°C	Internal method
Melting Temperature	282	°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.3E+15	ohms	Internal method
Volume Resistivity	1.0E+17	ohms·cm	Internal method
Dielectric Strength	18	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 - 180	°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: 4 to 8hr			
NOTE			
1.	HR		

Recommended distributors for this material

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WECHAT