China PPS hFR42

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hFR42 is filled PPS compound, which is filled with mineral based on the PPS resin. It shows high rigidity, creep resistance, high-temperature resistance, inherent flame resistance, chemical resistance, excellent electrical insulation properties, arc resistance, low water absorption, easy processing, low mold shrinkage, good dimensional stability, and radiation resistance. Its colour is offwhite.
Owing to its high performance and light colour, it's an excellent selection for outer decorating parts with high temperature resistance and high rigidity in electronic/electric and medical industry. Such as: outer shells of apparatus and electric appliance, connectors, high-temperature disinfectant instruments, surgical containers, shells of the electric tooth-cleaning devices and other devices used in dentistry.

General Information	
Filler / Reinforcement	Mineral filler
Features	Good dimensional stability
	Rigidity, high
	Insulation
	Anti-arc
	Anti-gamma radiation
	Workability, good
	Good creep resistance
	Good chemical resistance
	Heat resistance, high
	Low shrinkage
	Low or no water absorption
	Flame retardancy
Uses	Electrical/Electronic Applications
	Home appliance components
	Container
	Dental application field
	Medical/nursing supplies
	Decorative parts
Appearance	White-like
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.78	g/cm³	Internal method
Molding Shrinkage - Flow	0.25	%	Internal method

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	105	MPa	Internal method
Tensile Elongation (Break)	1.7	%	Internal method
Flexural Modulus	15200	MPa	Internal method

Flexural Strength	167	MPa	Internal method
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	5.7	kJ/m²	Internal method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	214	°C	Internal method
Melting Temperature	282	°C	Internal method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.3E+15	ohms	Internal method
Volume Resistivity	1.0E+17	ohms·cm	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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