

China PPS hxGR42

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hxGR42 is toughing & reinforced PPS compound which is filled with glass fiber on the basis of PPS-hx. It shows excellent mechanical properties, high impact strength, high-temperature resistance, solvent resistance, good electrical insulation properties, arc resistance, low water absorption, low mold shrinkage, good dimensional stability and radiation resistance. Its colour is offwhite. Owing to its high performance, it can be used to make appliances where impact resistance is required in automobile, mechanical, electrical and chemical industry.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Insulation		
	Anti-arc		
	Anti-gamma radiation		
	Solvent resistance		
	Impact resistance, high		
	Heat resistance, high		
	Low shrinkage		
	Low or no water absorption		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical appliances		
	Industrial application		
	Application in Automobile Field		
Appearance	White-like		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	Internal method
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	140	MPa	Internal method
Flexural Modulus	9600	MPa	Internal method
Flexural Strength	195	MPa	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	kJ/m ²	Internal method
Unnotched Izod Impact Strength	No Break		Internal method
Thermal	Nominal Value	Unit	Test Method

Melting Temperature	285	°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	Internal method
Volume Resistivity	2.5E+15	ohms·cm	Internal method
Dielectric Strength	15	kV/mm	Internal method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		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

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