China PPS PTFE-hGR203

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS/PTFE-hGR203 is lubricant PPS compound, which is filled with glass fiber, PTFE and ingredients based on the PPS resin. It shows solvent resistance, abrasive resistance and good mechanic prosperity, high modulus, creep resistance, high-temperature resistance, inherent flame resistance, easy processing, low mold shrinkage, good dimensional stability.
Owing to its high performance, it's widely used in mechanical and chemical industry for making wearable parts/components which work in the high-temperature, high pressure and solvent circumstance. Such as: plastic axle bearing, axle sleeve, textile machine components, components which are used in aero industry.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Good dimensional stability Solvent resistance Workability, good Good wear resistance Good wear resistance Heat resistance, high Lubrication Low shrinkage Flame retardancy		
Uses	Industrial application Aerospace applications Medical/nursing supplies		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.52	g/cm³	Internal method
Molding Shrinkage - Flow	0.25	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness [1]	104		Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	126	MPa	Internal method
Tensile Elongation (Break)	1.8	%	Internal method
Flexural Modulus	8500	MPa	Internal method
Flexural Strength	174	MPa	Internal method
Coefficient of Friction	0.37		Internal method
Abrasion - Width	6	mm	Internal method
Abrasion Loss [2]	4.5	mg	Internal method

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	11	kJ/m²	Internal method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	266	°C	Internal method
Melting Temperature	281	°C	Internal method
Flammability	**Nominal Value**		**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		
2.	120 min		

Recommended distributors for this material

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WECHAT