China PPS PTFE-hCF313

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS/PTFE-hCF313 is lubricant PPS compound, which is filled with carbon fiber, PTFE and ingredients based on the PPS resin. It shows solvent resistance, abrasion 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 an excellent selection for making high performance structures and wearing pieces with high wear resistance, high temperature resistance, high pressure resistance and high corrosion resistance; axle sleeve in high rotating condition; high modulus wear resistant parts in aero industry and weapon industry.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Good dimensional stability Solvent resistance Workability, good Good creep resistance 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	1.43	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	161	MPa	Internal method
Tensile Elongation (Break)	1.8	%	Internal method
Flexural Modulus	16900	MPa	Internal method
Flexural Strength	243	MPa	Internal method
Coefficient of Friction	0.17		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	12	kJ/m²	Internal method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	263	°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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