

# China PPS PTFE-hGR302

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS/PTFE-hGR302 is lubricant PPS compound, which is filled with glass fiber, PTFE and ingredients based on the PPS resin. It shows abrasive resistance, solvent resistance and good mechanic prosperity, high modulus, creep resistance, high-temperature resistance, inherent flame resistance, easy processing, low mold shrinkage.

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. It's also an excellent candidate in aerospace field.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	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		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm <sup>3</sup>	Internal method
Molding Shrinkage - Flow	0.25	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	136	MPa	Internal method
Flexural Modulus	10000	MPa	Internal method
Flexural Strength	200	MPa	Internal method
Coefficient of Friction	0.40		Internal method
Abrasion - Width	6	mm	Internal method
Abrasion Loss <sup>1</sup>	6.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	13	kJ/m <sup>2</sup>	Internal method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	272	°C	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: 6 to 12hr

#### NOTE

- 120 min

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#### Recommended distributors for this material

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