

# China PPS hb

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

## Message:

PPS-hb is high rigidity crystalline polymer that offers high-temperature resistance, innocuous, flame resistance, radiation resistance, solvent resistance, electrical insulation, arc resistance, low water absorption, low mold shrinkage, good dimensional stability and radiation resistance. It's brittle. Therefore, it needs to be "cured" by some modifier.

Owing to its high performance, it's widely used in medical, electronic/electric industry. Such as: rotproof sealed appliances, plugs, and contactors. It can be "cured" by different modifiers to make different PPS compounds.

General Information			
Features	Good dimensional stability		
	Rigidity, high		
	Crystallization		
	Insulation		
	Anti-arc		
	Anti-gamma radiation		
	Solvent resistance		
	Heat resistance, high		
	Low shrinkage		
	Non-toxic		
	Low or no water absorption		
	Flame retardancy		
Uses	Plug		
	Electrical/Electronic Applications		
	Home appliance components		
	Medical/nursing supplies		
Processing Method	Extrusion		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) <sup>1</sup> (315°C/5.0 kg)	190	g/10 min	Internal method
Water Absorption (Saturation)	0.22	%	Internal method
Molecular weight-Weight Average <sup>2</sup>	48000		
Ash Content	0.27	%	Internal method
Impact Strength	3.00	kJ/m <sup>2</sup>	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	50.0	MPa	Internal method

Flexural Modulus	3000	MPa	Internal method
Flexural Strength	100	MPa	Internal method
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	280	°C	Internal method
Flammability	Nominal Value		Test Method
Flame Rating	V-0		Internal method

#### Additional Information

Compression Molding Parameters:

Temperature: 340 to 370°C

Time: 10 to 15 min

Pressure: 7 to 10 MPa

Heat Time: 2 to 3 hr

Injection	Nominal Value	Unit
Drying Temperature	100 - 105	°C
Drying Time	3.0	hr
Rear Temperature	220 - 260	°C
Middle Temperature	290 - 310	°C
Front Temperature	300 - 320	°C
Nozzle Temperature	290 - 300	°C
Processing (Melt) Temp	160 - 180	°C
Mold Temperature	60.0 - 80.0	°C
Injection Pressure	60.0 - 70.0	MPa
Injection Rate	Moderate	

#### Injection instructions

Processing time: 4 to 8hr

Extrusion	Nominal Value	Unit
Drying Temperature	100 - 105	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	160 - 200	°C
Cylinder Zone 2 Temp.	260 - 290	°C
Cylinder Zone 3 Temp.	280 - 300	°C
Adapter Temperature	265 - 275	°C

#### Extrusion instructions

Degree of vacuum: 0.09 Mpa

NOTE	
1.	2.095 mm
2.	Gel Chromatography

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