

# China PPS hFR61

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hFR61 is filled PPS compound, which is filled with mineral and glass fiber based on the PPS resin. It shows excellent electrical insulation properties, arc resistance, high-temperature resistance, inherent flame resistance, chemical resistance, high rigidity, creep resistance, low water absorption, easy processing, low mold shrinkage, good dimensional stability, and radiation resistance. Its colour is black.

Owing to its high performance and comparative low price, it is widely used in electronic, electric and military field. Such as: connectors, plugs and military electric appliances.

General Information			
Filler / Reinforcement	Glass \Mineral		
Features	Good dimensional stability		
	Rigidity, high		
	Insulation		
	Anti-arc		
	Anti-gamma radiation		
	Workability, good		
	Good creep resistance		
	Good chemical resistance		
	Heat resistance, high		
	Low shrinkage		
Uses	Low or no water absorption		
	Flame retardancy		
	Plug		
	Electrical/Electronic Applications		
	Electrical appliances		
Appearance	Military application		
	Connector		
	Black		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.74	g/cm <sup>3</sup>	Internal method
Melt Mass-Flow Rate (MFR)	37	g/10 min	
Ash Content	58	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	14100	MPa	Internal method
Flexural Strength	176	MPa	Internal method
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	6.5E+11	ohms	Internal method
Volume Resistivity	1.2E+16	ohms·cm	Internal method
Dielectric Constant (1 MHz)	4.00		Internal method
Dissipation Factor (1 MHz)	1.5E-3		Internal method
Flammability	Nominal Value	Unit	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 - 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: 4 to 8hr			

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

