China PPS hMR60

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hMR60 is filled and reinforced PPS compound, which is filled with mineral and glass fiber based on the PPS resin. With a comparative low price, it shows high rigidity, creep resistance, low mold shrinkage, high-temperature resistance, inherent flame resistance, excellent electrical insulation properties, easy processing, and good dimensional stability.

Owing to its high performance and comparative low price, it is widely used in electronic, electric appliances, automobile, home appliances, railway, space aviation, mechanical and military fields etc. Such as: connectors, plugs, lamp holders, electric appliance outer shells where high-temperature resistant is required, nuts, bolts and contacting panel of electric appliance.

General Information				
Filler / Reinforcement	Glass \Mineral			
Features	Good dimensional stability			
	Rigidity, high			
	Insulation			
	Workability, good			
	Good creep resistance			
	Heat resistance, high			
	Low shrinkage			
	Flame retardancy			
Uses	Plug			
	Electrical/Electronic Applications			
	Electrical components			
	Electrical appliances			
	Aircraft applications			
	Shield			
	Connector			
	Bolt			
	Application in Automobile Field			
	Shell			
	Lighting device			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.92	g/cm³	Internal method	
Molding Shrinkage			Internal method	
Flow	0.25	%	Internal method	
Transverse flow	0.75	%	Internal method	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness ¹	110		Internal method	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	172	MPa	Internal method
Tensile Elongation (Break)	1.3	%	Internal method
Flexural Modulus	15400	MPa	Internal method
Flexural Strength	257	MPa	Internal method
Compressive Strength	140	MPa	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	10	kJ/m²	Internal method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	265	°C	Internal method
Melting Temperature	282	°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+14	ohms	Internal method
Volume Resistivity	2.0E+16	ohms·cm	Internal method
Dielectric Strength	15	kV/mm	Internal method
Dielectric Constant (1 MHz)	4.00		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 16hr			
NOTE			

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