China PPS hMR60/1

Polyphenylene Sulfide

Sichuan Deyang Chemical Co., Ltd

Message:

PPS-hMR60/1 is filled and reinforced PPS compound, which is filled with mineral and glass fiber based on the PPS resin. High flow. 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, and mechanical fields etc. And it's an excellent selection for small parts, connector, plugs and terminals with thin wall insets etc.

General Information	
Filler / Reinforcement	Glass \Mineral
Features	Good dimensional stability Rigidity, high Insulation Workability, good Good creep resistance High liquidity Heat resistance, high Low shrinkage Flame retardancy
Uses	Plug Electrical/Electronic Applications Electrical components Electrical appliances Connector Application in Automobile Field
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.81	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/m^2	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			
1.	HR		

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


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