

# KumhoSunny PPO HSP8620G

Polyphenylene Ether + PS

Shanghai KumhoSunny Plastics Co., Ltd.

## Message:

HSP8620G is 20%GF reinforced PS/PPE resin. HSP8620G has high heat resistance, high rigidity, excellent creep performance in low and high temperature, low water absorption and high shape resistance property. HSP8620G is mainly used in electron & electric parts, OA appliance, fluid engineering,etc.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Creep Resistance		
	High Heat Resistance		
	High Rigidity		
	Low to No Water Absorption		
Uses	Appliances		
	Electrical Parts		
	Electrical/Electronic Applications		
UL File Number	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0 to 8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	91.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	5210	MPa	ASTM D790
Flexural Strength	123	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	113	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525 <sup>1</sup>
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 mm)	HB	UL 94
Additional Information	Nominal Value	
CSA File No.	LS 66457	
Injection	Nominal Value	Unit
Drying Temperature	90.0 to 110	°C
Drying Time	3.0 to 6.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	230 to 240	°C
Middle Temperature	250 to 260	°C
Front Temperature	260 to 270	°C
Nozzle Temperature	255 to 265	°C
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	50.0 to 80.0	°C
Back Pressure	0.200 to 0.800	MPa
Screw Speed	20 to 100	rpm
NOTE		

1. Rate B (120°C/h)

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#### Recommended distributors for this material

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