

# KumhoSunny PPO HSP8340NH

Polyphenylene Ether + PS  
Shanghai KumhoSunny Plastics Co., Ltd.

Message:  
HSP8340NH is non-halogen general purpose PS/PPO resin. HSP8340NH has excellent creep performance in low and high temperature, high rigidity, low water absorption and high shape resistance property. HSP8340NH is mainly used in electron & electric parts, OA appliance, fluid engineering, etc.

General Information			
Features	General Purpose		
	Good Creep Resistance		
	Halogen Free		
	High Rigidity		
	Low to No Water Absorption		
Uses	Appliances		
	Electrical Parts		
	Electrical/Electronic Applications		
	General Purpose		
UL File Number	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	50 to 65	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	42.0	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	2110	MPa	ASTM D790
Flexural Strength	62.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	340	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	88.0	°C	ASTM D1525 <sup>1</sup>
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		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	240 to 250	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	250 to 255	°C	
Processing (Melt) Temp	240 to 270	°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

### 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

