

KumhoSunny SMA HSG5415

Styrene Maleic Anhydride
Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HSG5415 is an 15% glass fiber reinforced SMA alloy,offering high heat resistance,high modulus and low odour. Application:automobile interiors and exteriors such as instrument Panel, console substrate, instrument panel ducts, etc.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	High Heat Resistance		
	Low to No Odor		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Interior Parts		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage (23°C)	0.30 to 0.50	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	73.0	MPa	ISO 527-2/50
Tensile Strain (Break)	5.0	%	ISO 527-2/50
Flexural Modulus ¹	5000	MPa	ISO 178
Flexural Stress ²	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength ⁴ (23°C)			ISO 179
30		kJ/m ²	
Notched Izod Impact Strength ⁵ (23°C)			ISO 180
10		kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed)	117	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	100 to 105	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	270 to 280	°C	
Nozzle Temperature	270 to 280	°C	
Processing (Melt) Temp	270 to 280	°C	
Mold Temperature	70.0 to 90.0	°C	
Back Pressure	1.00 to 5.00	MPa	
Screw Speed	30 to 70	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Condition: 4 J		
4.	Condition: 4 J		
5.	Condition: 5.5 J		
6.	120°C/h		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

