

KumhoSunny ABS HAG5223

Acrylonitrile Butadiene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HAG5223 is 20%GF ABS resin with heat resistance. HAG5223 is mainly used in axial and centrifuge inertia fan blades of air-condition, automobile parts, camera equipment,etc.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Medium Heat Resistance		
Uses	Automotive Applications		
	Camera Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	90.0	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	5200	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	120	°C	ASTM D1525 ¹
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	HB		UL 94
Additional Information	Nominal Value		
CSA File No.	LS 66457		

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	210 to 230	°C
Middle Temperature	220 to 240	°C
Front Temperature	220 to 240	°C
Nozzle Temperature	220 to 240	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	50.0 to 80.0	°C
Back Pressure	1.00 to 5.00	MPa
Screw Speed	30 to 60	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

