

KumhoSunny PA/ABS HNB0225G4

Acrylonitrile Butadiene Styrene + Nylon

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HNB0225G4 is 20%GF reinforced PA/ABS resin. HNB0225G4 has excellent processing properties and improved appearance. HNB0225G4 is mainly used in automobile inner decoration, air change tube, switch, air-condition vent grill, damping system, garden tools, power tools housings, electronic weightier etc.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Processability		
Uses	Automotive Interior Parts		
	Housings		
	Lawn and Garden Equipment		
	Power/Other Tools		
	Switches		
	Tubing		
UL File Number	E254819		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	8.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	85.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	5000	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	195	°C	
1.8 MPa, Unannealed	170	°C	
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 (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	200 to 220	°C	
Middle Temperature	220 to 240	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	250 to 265	°C	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	60.0 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

