

KumhoSunny PA/ABS HNB0225G2

Acrylonitrile Butadiene Styrene + Nylon

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HNB 0225G2 has the feature that 10%GF is contained.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Processability		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Interior Parts		
	Electrical Parts		
	Electrical/Electronic Applications		
	Power/Other Tools		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.14	g/cm ³	ASTM D792
--	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
240°C/10.0 kg	15 to 25	g/10 min	ASTM D1238
240°C/10.0 kg	20	g/10 min	ISO 1133
Molding Shrinkage			
Flow	0.30 to 0.80	%	ASTM D955
--	0.30 to 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	60.0	MPa	ASTM D638
--	53.0	MPa	ISO 527-2/50
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus			
--	3000	MPa	ASTM D790
-- ¹	2800	MPa	ISO 178
Flexural Strength			

--	90.0	MPa	ASTM D790
-- ²	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179
-30°C	10	kJ/m ²	
23°C	17	kJ/m ²	
Notched Izod Impact			
3.20 mm	160	J/m	ASTM D256
23°C ⁴	14	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	160	°C	ASTM D648
1.8 MPa, Unannealed	100	°C	ASTM D648
1.8 MPa, Unannealed ⁵	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	110	°C	ASTM D1525 ⁶
--	115	°C	ISO 306/B50
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	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	190 to 210	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	210 to 230	°C	
Nozzle Temperature	220 to 240	°C	
Processing (Melt) Temp	220 to 230	°C	
Mold Temperature	60.0 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.	4J		
4.	5.5J		
5.	120°C/h		
6.	Rate B (120°C/h)		

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