

Kepamid® 1310GSU

Polyamide 6

Korea Engineering Plastics Co., Ltd

Message:

KEPAMID 1310GSU is a GF 8%-reinforced, impact-modified, and UV-stabilized PA6 grade. It features strong mechanical properties, impact strength, and UV and heat resistance. It is suitable for applications such as automotive, electrical & electronics, and industrial parts.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 8.0% filler by weight		
Additive	Impact modifier		
	UV stabilizer		
Features	Good Heat Resistance		
	UV Stabilized		
	Impact modification		
	Impact resistance, good		
	Good UV resistance		
Uses	Electrical/Electronic Applications		
	Industrial components		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
shrinkage-Flow (3.00 mm)	0.60 - 0.70	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	77.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	3300	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	205	°C	ISO 75-2/B
1.8 MPa, not annealed	190	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.80		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	90	°C	
Dry Air Dryer	80	°C	
Drying Time			
--	6.0 - 8.0	hr	
Dry Air Dryer	4.0 - 6.0	hr	
Suggested Max Moisture	0.050	%	
Hopper Temperature	60 - 80	°C	
Rear Temperature	250	°C	
Middle Temperature	260	°C	
Front Temperature	260	°C	
Nozzle Temperature	260	°C	
Mold Temperature	70 - 90	°C	
Back Pressure	0.490 - 0.981	MPa	
Screw Speed	80 - 120	rpm	
NOTE			
1.	10°C/min		

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