

Kepamid® 6150GFH

Polyphthalamide

Korea Engineering Plastics Co., Ltd

Message:

KEPAMID-PPA 6150GFH is a glass fiber 50%-reinforced PPA grade.

It is suitable for automotive, electrical & electronics, and consumer parts requiring excellent mechanical strength and heat resistance.

General Information			
UL YellowCard	E120354-101006360		
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	High strength		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
shrinkage-Flow (3.00 mm)	0.20 - 0.60	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	295	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	16400	MPa	ISO 178
Flexural Stress	420	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	280	°C	ISO 75-2/A
Melting Temperature ¹	310	°C	ISO 11357-3
CLTE - Flow	1.5E-5 - 4.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Dielectric Strength	28	kV/mm	IEC 60243-1

Relative Permittivity (1 MHz)	4.50		IEC 60250
Dissipation Factor (1 MHz)	1.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
Dry Air Dryer, A	90	°C	
Dry Air Dryer, B	120	°C	
Drying Time			
Dry Air Dryer, A	8.0	hr	
Dry Air Dryer, B	4.0	hr	
Suggested Max Moisture	0.10	%	
Hopper Temperature	60 - 80	°C	
Rear Temperature	310 - 330	°C	
Middle Temperature	310 - 335	°C	
Front Temperature	315 - 340	°C	
Nozzle Temperature	320 - 340	°C	
Mold Temperature	130 - 150	°C	
NOTE			
1.	10°C/min		

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