

## PPA | KEPAMID 6150GFH | Glass fiber reinforced grade

- 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.

Physical properties	Test Standard	Unit	Value
Filler contents	ISO 1172	%	50
Specific gravity	ISO 1183	-	1.65
Water absorption(23 °C, 50 %RH)	ISO 62	%	0.3
Mold shrinkage(Flow direction, Φ = 100 mm, t = 3 mm)	ISO 294	%	0.2~0.6

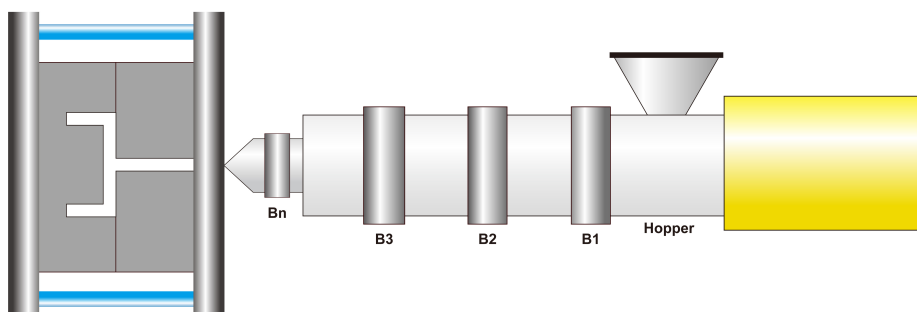
Thermal properties	Test Standard	Unit	Value
Melting point(10 °C/min)	ISO 11357	°C	310
Coefficient of linear thermal expansion	ISO 11359	X 10 <sup>-5</sup> /°C	1.5~4.5
Heat deflection temperature(1.8 MPa)	ISO 75	°C	280
Flammability(t = 0.8 mm)	UL 94	Class	HB

Mechanical properties	Test Standard	Unit	Value
Elongation at break	ISO 527	%	2.2
Tensile stress	ISO 527	MPa	295
Flexural strength	ISO 178	MPa	420
Flexural modulus	ISO 178	MPa	16400
Charpy impact strength(Notched) @ 23°C	ISO 179/1eA	kJ/m <sup>2</sup>	15

Electrical properties	Test Standard	Unit	Value
Permittivity(1 MHz)	IEC 60250	-	4.5
Dissipation factor(1MHz)	IEC 60250	-	0.001
Surface resistivity	IEC 60093	Ω	10 <sup>16</sup>
Volume resistivity	IEC 60093	Ω/ cm	10 <sup>15</sup>
Dielectric strength	IEC 60243	KV/mm	28

Revision No : 1 (2015-02-13)

## Injection molding condition



### Pre-drying (Suggested max. moisture : 0.1%)

It is recommend to dry material at 90°C(194°F) for 8 h at dehumidified dryer.

It is recommend to dry material at 120°C(248°F) for 4 h at dehumidified dryer.

### Temperature

Mold temperature : 130 °C ~ 150 °C(266 °F ~ 302 °F)

Barrel temperature : 310 °C ~ 340 °C(590 °F ~ 644 °F)

Mold	Bn(Nozzle)	B3(Metering)	B2(Compression)	B1(Feeding)	Hopper
130 ~ 150 °C	320 ~ 340 °C	315 ~ 340 °C	310 ~ 335 °C	310 ~ 330 °C	60 ~ 80 °C
266 ~ 302 °F	608 ~ 644 °F	599 ~ 644 °F	590 ~ 635 °F	590 ~ 626 °F	140 ~ 176 °F

### Plastification

Screw speed :

Back pressure :

### Disclaimer

Notice to users : The information contained in this data sheet is based on our current knowledge and experience, so it may change as new knowledge and experience becomes available. This information is based on only above-mentioned product produced in Korea Engineering Plastics Co., Ltd. ("KEP") through relevant test methods and conditions and doesn't relate to any products made of this product with the inclusion of other additives, such as processing aids or colorants. This information should not be construed as a promise or guarantee of specific properties of this product described or its suitability for a particular application, so users make their own determination as to its suitability to their purposes prior to use this product. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of this product. This product is not intended for use in medical and dental implants and users should meet all safety and health standards. KEP makes no warranty and assumes no liability in connection with any use of this information.