

PPA | KEPAMID 6145GHM8 | Glass fiber/mineral filler reinforced grade

- KEPAMID-PPA 6145GHM8 is a glass fiber/mineral filler 45%-reinforced and wear resistance PPA grade.
- It is suitable for automotive, electrical & electronics, and consumer parts requiring exellent mechanical strength, dimensional stability, and heat resistance.

Physical properties	Test Standard	Unit	Value
Filler contents	ISO 1172	%	45
Specific gravity	ISO 1183	-	1.60
Water absorption(23 °C, 50 %RH)	ISO 62	%	0.4
Mold shrinkage(Flow direction, $\Phi = 100 \text{ mm}$, $t = 3 \text{ mm}$)	ISO 294	%	0.4~0.7

Thermal properties	Test Standard	Unit	Value
Melting point(10 °C/min)	ISO 11357	°C	310
Coefficient of linear thermal expansion	ISO 11359	X 10 ⁻⁵ /°C	-
Heat deflection temperature(1.8 MPa)	ISO 75	°C	282
Flammability(t = 0.8 mm)	UL 94	Class	НВ

Mechanical properties	Test Standard	Unit	Value
Tensile stress	ISO 527	MPa	180
Tensile strain at yield	ISO 527	%	1.6
Nominal strain at break	ISO 527	%	260
Flexural strength	ISO 178	MPa	14100
Flexural modulus	ISO 178	MPa	5.5

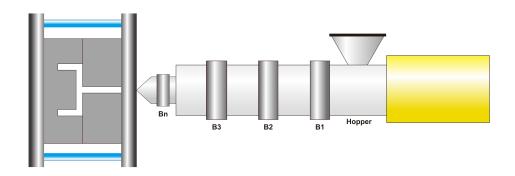
Electrical properties	Test Standard	Unit	Value
Permittivity(1 MHz)	IEC 60250	-	-
Dissipation factor(1MHz)	IEC 60250	-	-
Surface resistivity	IEC 60093	Ω	-
Volume resistivity	IEC 60093	Ω/ cm	_
Dielectric strength	IEC 60243	KV/mm	-

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Injection molding condition



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

It is recommend to dry material at $90^{\circ}\text{C}(194^{\circ}\text{F})$ for 8 h at dehumidified dryer. It is recommend to dry material at $120^{\circ}\text{C}(248^{\circ}\text{F})$ 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

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