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 ℃, 50 %RH)	ISO 62	%	0.4
Mold shrinkage(Flow direction, Φ = 100 mm, t = 3 mm)	ISO 294	%	0.4~0.7

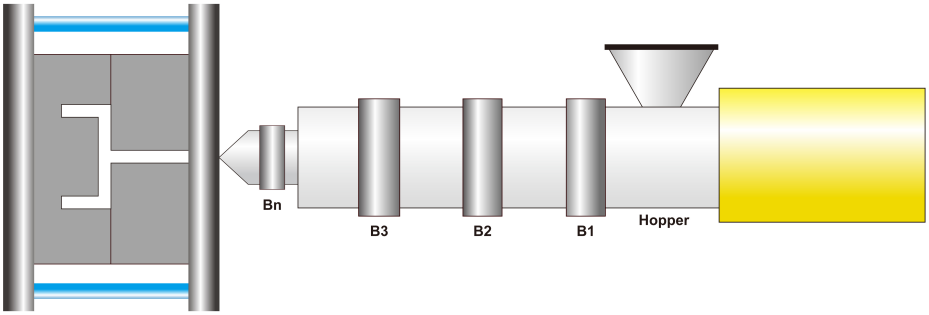
Thermal properties	Test Standard	Unit	Value
Melting point(10 ℃/min)	ISO 11357	℃	310
Coefficient of linear thermal expansion	ISO 11359	X 10^{-5}/℃	-
Heat deflection temperature(1.8 MPa)	ISO 75	℃	282
Flammability(t = 0.8 mm)	UL 94	Class	HB

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	-

Revision No : 1 (2015-02-13)

Injection molding condition



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

It is recommend to dry material at 90℃(194℉) for 8 h at dehumidified dryer.
It is recommend to dry material at 120℃(248℉) for 4 h at dehumidified dryer.

Temperature

Mold temperature : 130 ℃ ~ 150 ℃(266 ℉ ~ 302 ℉)
Barrel temperature : 310 ℃ ~ 340 ℃(590 ℉ ~ 644 ℉)

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

Plastification

Screw speed :
Back pressure :

Disclaimer