

POM | KEPITAL H100 |

- A high viscosity and unfilled polyacetal homopolymer
- Excellent mechanical properties compared to polyacetal copolymer
- Various applications such as gears, automotive door system, bushings, housings, rollers, and conveyor belts.

Physical properties	Test Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.42
Melt flow rate	ISO 1133	g/10min	2.2
Water absorption(23 °C, 50 %RH)	ISO 62	%	0.2

Thermal properties	Test Standard	Unit	Value
Heat deflection temperature(1.8 MPa)	ISO 75	°C	95
Flammability	UL 94	-	HB
Melting point	ISO 11357	°C	176
Coefficient of linear thermal expansion	ISO 11359	X 10 ⁻⁵ /°C	11

Mechanical properties	Test Standard	Unit	Value
Tensile modulus	ISO 527	MPa	2,950
Tensile stress	ISO 527	MPa	70
Tensile strain at yield	ISO 527	%	20
Nominal strain at break	ISO 527	%	45
Flexural strength	ISO 178	MPa	92
Flexural modulus	ISO 178	MPa	2,650
Charpy impact strength(Notched) @ 23°C	ISO 179/1eA	kJ/m ²	11
Charpy impact strength(Notched) @ -30°C	ISO 179/1eA	kJ/m ²	8

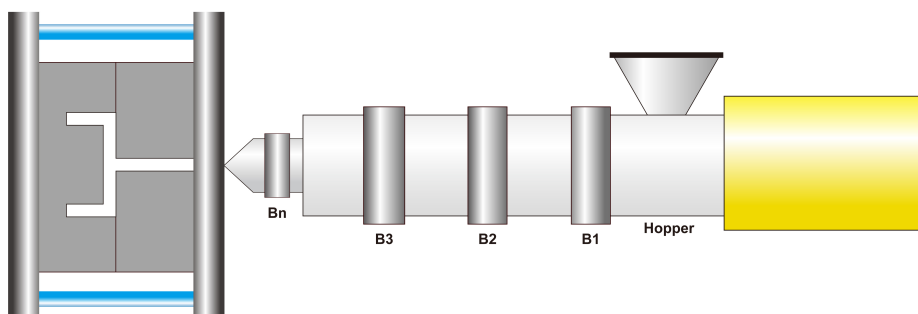
Electrical properties	Test Standard	Unit	Value
Surface resistivity	IEC 60093	Ω	-
Volume resistivity	IEC 60093	Ω/ cm	-
Dielectric strength	IEC 60243-1	kV/mm	-

Other	Test Standard	Unit	Value
Mold shrinkage(flow direction, t = 2 mm)	ISO 294-4	%	2.2

General information	Test Standard	Unit	Value
Polymer abbreviation	ISO 1043	-	POM

Revision No : 8 (2020-04-03)

Injection molding condition



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

It is recommend to dry material at 80°C ~ 90°C(176°F ~ 213°F) for 3h ~ 4h if necessary.

Temperature

Mold temperature : 60°C ~ 90°C (140°F ~ 194°F)

Barrel temperature : 180°C ~ 210°C (356°F ~ 410°F)

Mold	Bn(Nozzle)	B3(Metering)	B2(Compression)	B1(Feeding)	Hopper
60 ~ 90 °C	190 ~ 220 °C	200 ~ 210 °C	190 ~ 200 °C	180 ~ 190 °C	60 ~ 80 °C
140 ~ 194 °F	374 ~ 428 °F	392 ~ 410 °F	374 ~ 392 °F	356 ~ 374 °F	140 ~ 176 °F

Plastification

Screw speed : 150mm/s ~ 200mm/s

Back pressure : Maximum 20 bar

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