

POM | KEPITAL F10-03H | High-stiffness grade

- A stiffness-improved(high-viscosity) grade for general injection molding.
- Features greater stiffness compared to general POM copolymer.

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

Physical properties	Test Standard	Unit	Value
Water absorption(23 °C, 50 %RH)	ISO 62	%	0.2
Density	ISO 1183	g/cm ³	1.41
Melt flow rate	ISO 1133	g/10min	3.0

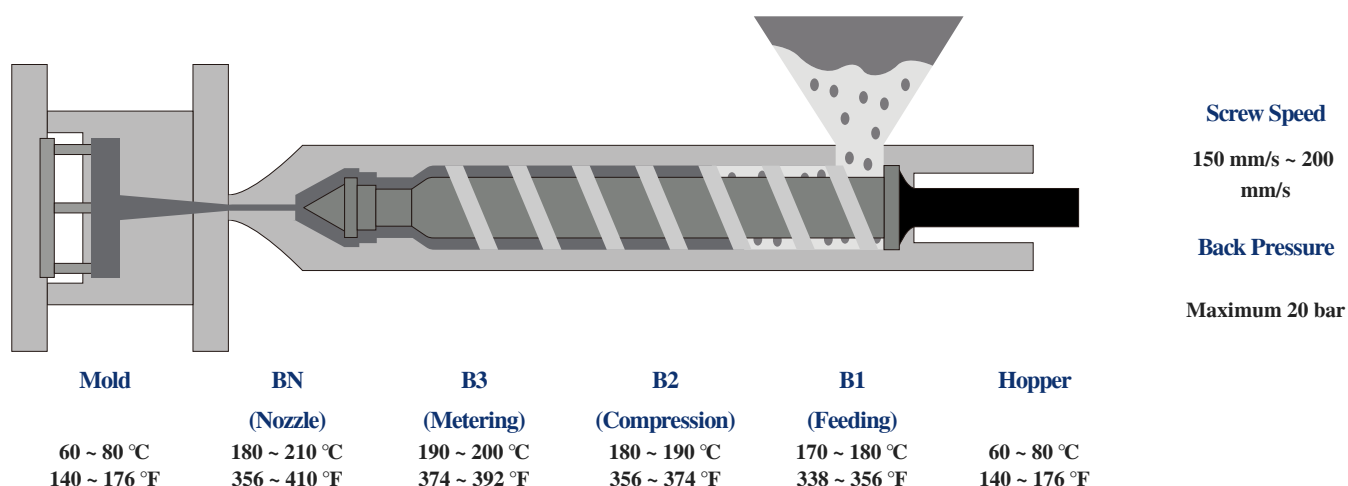
Thermal properties	Test Standard	Unit	Value
Heat deflection temperature (1.8 MPa)	ISO 75	°C	100
Flammability	UL 94	—	HB
Coefficient of linear thermal expansion	ISO 11359	X 10 ⁻⁵ /°C	12
Melting point	ISO 11357	°C	170

Mechanical properties	Test Standard	Unit	Value
Tensile modulus	ISO 527	MPa	2,800
Tensile stress	ISO 527	MPa	67
Tensile strain at yield	ISO 527	%	12
Nominal strain at break	ISO 527	%	35
Flexural strength	ISO 178	MPa	90
Flexural modulus	ISO 178	MPa	2,600
Charpy impact strength(Notched) @ 23°C	ISO 179/1eA	kJ/m ²	8.5
Charpy impact strength(Notched) @ -30°C	ISO 179/1eA	kJ/m ²	6.5

Electrical properties	Test Standard	Unit	Value
Surface resistivity	IEC 60093	Ω	1x10 ¹⁶
Volume resistivity	IEC 60093	Ω·cm	1x10 ¹⁴
Dielectric strength	IEC 60243-1	kV/mm	19

Other	Test Standard	Unit	Value
Mold shrinkage (flow direction, t = 2 mm)	ISO 294-4	%	2.0

Injection molding condition



Contact information

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