

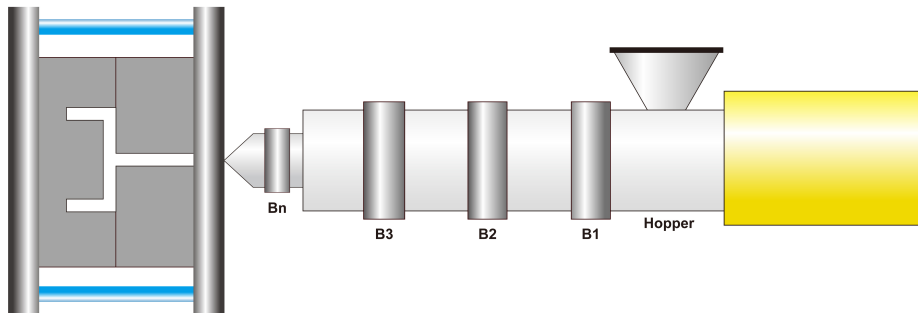
## POM | KEPITAL F10-02 | Standard grade

- A high-viscosity grade for extrusion of round bars, sheets, and tubes
- Suitable for extrusion molding of thick-walled, void-free and sink mark-reduced parts

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 <sup>3</sup>	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	96
Flammability	UL 94	-	HB
Coefficient of linear thermal expansion	ISO 11359	X 10 <sup>-5</sup> /°C	12
Melting point	ISO 11357	°C	165
Mechanical properties	Test Standard	Unit	Value
Tensile modulus	ISO 527	MPa	2,600
Tensile stress	ISO 527	MPa	63
Tensile strain at yield	ISO 527	%	10
Nominal strain at break	ISO 527	%	32
Flexural strength	ISO 178	MPa	84
Flexural modulus	ISO 178	MPa	2,400
Charpy impact strength(Notched) @ 23°C	ISO 179/1eA	kJ/m <sup>2</sup>	8.0
Charpy impact strength(Notched) @ -30°C	ISO 179/1eA	kJ/m <sup>2</sup>	6.5
Electrical properties	Test Standard	Unit	Value
Surface resistivity	IEC 60093	Ω	1x10 <sup>16</sup>
Volume resistivity	IEC 60093	Ω/ cm	1x10 <sup>14</sup>
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

Revision No : 7 (2020-04-03)

Injection molding condition



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

80 °C ~ 90 °C 3 h ~ 4 h

**Temperature**

Mold temperature : 60 °C ~ 80 °C(140 °F ~ 176 °F)

Barrel temperature : 170 °C ~ 210 °C(338 °F ~ 410 °F)

Mold	Bn(Nozzle)	B3(Metering)	B2(Compression)	B1(Feeding)	Hopper
60 ~ 80 °C	180 ~ 210 °C	190 ~ 200 °C	180 ~ 190 °C	170 ~ 180 °C	60 ~ 80 °C
140 ~ 176 °F	356 ~ 410 °F	374 ~ 392 °F	356 ~ 374 °F	338 ~ 356 °F	140 ~ 176 °F

**Plastification**

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

Back pressure : Maximum 20 bar

**Contact information**

**Headquarters**

T Tower 10F, 30, Sowol-ro 2-gil, Jung-gu, Seoul, Republic of Korea (04637)  
TEL: +82-2-6952-8377

**KPAC China**

Room T2-903C, No.2 building. SOHO Tianshan Plaza. No.1717 Tianshan Rd. Changning District. Shanghai. China  
Tel +86 21 6237-1972, Telefax +86 21 6237-1803

**Research Center**

Wavetech B/D, 7F, 15, Iljik-ro 94gil, Anyang city, Republic of Korea (13901)  
TEL: +82-31-436-1300

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