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# POM | KEPITAL F20-03 | Standard grade

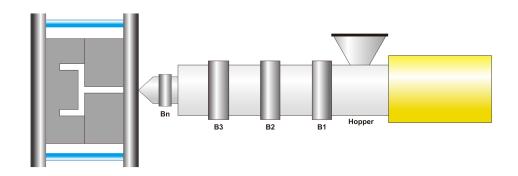
- A medium-viscosity grade for general injection molding
- A general grade for injection molding applications

Test Standard	Unit	Value
ISO 1183	g/cm <sup>3</sup>	1.41
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	g/10min	9
ISO 62	%	0.2
Test Standard	Unit	Value
ISO 75	$^{\circ}\! \mathbb{C}$	100
UL 94	_	НВ
ISO 11357	°C	165
ISO 11359	X 10 <sup>-5</sup> /°C	12
Test Standard	Unit	Value
ISO 527	MPa	2,750
ISO 527	MPa	65
ISO 527	%	10
ISO 527	%	35
ISO 178	MPa	87
ISO 178	MPa	2,550
ISO 179/1eA	KJ/m <sup>2</sup>	6.5
ISO 179/1eA	KJ/m <sup>2</sup>	5.5
Test Standard	Unit	Value
IEC 60093	Ω	$1x10^{16}$
IEC 60093	Ω/ cm	1x10 <sup>14</sup>
IEC 60243-1	kV/mm	19
Test Standard	Unit	Value
KEP Method	%	2.0
Test Standard	Unit	Value
Test Standard		
	ISO 1133 ISO 62  Test Standard ISO 75 UL 94 ISO 11357 ISO 11359  Test Standard ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eA  Test Standard IEC 60093 IEC 60093 IEC 60243-1  Test Standard KEP Method	ISO 1133 g/10min ISO 62 %  Test Standard Unit ISO 75 °C UL 94 - ISO 11359 X 10 <sup>-5</sup> /°C  Test Standard Unit ISO 527 MPa ISO 527 MPa ISO 527 % ISO 527 % ISO 178 MPa ISO 179/1eA KJ/m²  Test Standard Unit IEC 60093 Ω/cm IEC 60093 Ω/cm IEC 60243-1 kV/mm  Test Standard Unit KEP Method %

Revision No: 3 (2016-10-01)



#### Injection molding condition



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

It is recommend to dry material at 80°C ~ 100°C(176°F ~ 212°F) for 3 h ~ 4 h if necessary.

### **Temperature**

Mold temperature :  $60 \,^{\circ}\text{C} \sim 80 \,^{\circ}\text{C}(140 \,^{\circ}\text{F} \sim 176 \,^{\circ}\text{F})$ Barrel temperature :  $170 \,^{\circ}\text{C} \sim 210 \,^{\circ}\text{C}(338 \,^{\circ}\text{F} \sim 410 \,^{\circ}\text{F})$ 

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

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