

Print Date: 2016-04-14

POM | KEPITAL F20-03 | Standard grade

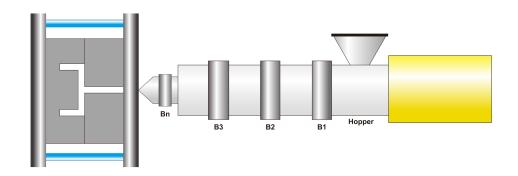
- A medium-viscosity grade for general injection molding
- A general grade for injection molding applications

Test Standard ISO 1183	Unit	Value
130 1103		1.41
	g/cm ³	
ISO 1133	g/10min	9
ISO 62	%	0.2
Test Standard	Unit	Value
ISO 75	°C	100
UL 94	_	НВ
ISO 11357	°C	165
ISO 11359	X 10 ⁻⁵ /°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	KJ/m ²	6.5
ISO 179	KJ/m ²	5.5
Test Standard	Unit	Value
IEC 60093	Ω	$1x10^{16}$
IEC 60093	Ω/ cm	1x10 ¹⁴
IEC 60243-1	kV/mm	19
Test Standard	Unit	Value
KEP Method	%	2.0
Test Standard	Unit	Value
	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 ISO 179 ISO 179 Test Standard IEC 60093 IEC 60093 IEC 60243-1 Test Standard KEP Method	Test Standard Unit ISO 75 °C UL 94 - ISO 11357 °C ISO 11359 X 10 ⁻⁵ /°C Test Standard Unit ISO 527 MPa ISO 527 MPa ISO 527 % ISO 178 MPa ISO 178 MPa ISO 178 MPa ISO 179 KJ/m² ISO 179 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 : 2 (2015-07-22)



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

Contact information

Headquarters

Mapo-daero 119 (Gongdeok-dong), Mapo-gu, Seoul, Korea Tel 82-2-707-6840 ~ 8, Telefax 82-2-714-9235

KEP Europe GmbH

Rheingaustrasse 190-196 D-65203 Wiesbaden Germany Tel +49(0) 611 962-7381, Telefax +49 (0)611 962-9132

KEP Americas

106 North Denton Tap Road Suite 210-202 Coppell, TX 75019, USA

Tel +1 888 KEPITAL, Telefax +1 888 537-3291

KEP China

A1905, HongQiao Nanfeng Plaza, 100 Zunyi Road, Shanghai, China

Print Date: 2016-04-14

Tel +86 21 6237-1972, Telefax +86 21 6237-1803

Disclaimer

Notice to users: The information contained in this data sheet is based on our current knowledge and experience, so it may change as new knowledge and experience becomes available. This information is based on only above-mentioned product produced in Korea Engineering Plastics Co., Ltd. ("KEP") through relevant test methods and conditions and doesn't relate to any products made of this product with the inclusion of other additives, such as processing aids or colorants. This information should not be construed as a promise or guarantee of specific properties of this product described or its suitability for a particular application, so users make their own determination as to its suitability to their purposes prior to use this product. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of this product. This product is not intended for use in medical and dental implants and users should meet all safety and health standards. KEP makes no warranty and assumes no liability in connection with any use of this information.

KOREA ENGINEERING PLASTICS CO., LTD - www.kepital.com