

POM | KEPITAL F20-03 | Standard grade

- A medium-viscosity grade for general injection molding

- A general grade for injection molding applications

Physical properties	Test Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.41
Melt flow rate	ISO 1133	g/10min	9
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	100
Flammability	UL 94	–	HB
Melting point(10 °C/min)	ISO 11357	°C	165
Coefficient of linear thermal expansion	ISO 11359	X 10 ⁻⁵ /°C	12

Mechanical properties	Test Standard	Unit	Value
Tensile modulus	ISO 527	MPa	2,750
Tensile strength	ISO 527	MPa	65
Tensile strain at yield	ISO 527	%	10
Strain at break	ISO 527	%	35
Flexural strength	ISO 178	MPa	87
Flexural modulus	ISO 178	MPa	2,550
Charpy impact strength(Notched) @ 23°C	ISO 179	KJ/m ²	6.5
Charpy impact strength(Notched) @ -40°C	ISO 179	KJ/m ²	5.5

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, Φ = 100 mm, t = 3 mm)	KEP Method	%	2.0

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

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