

Kepital® F20-03BLW

Acetal (POM) Copolymer

KEP Americas

Message:

A medium-viscosity grade for general injection molding. Suitable for applications requiring laser welding.

General Information			
Features	Laser welding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
shrinkage-Flow ¹ (3.00 mm)	2.0	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	62.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2
Nominal Tensile Strain at Break	32	%	ISO 527-2
Flexural Modulus (23°C)	2550	MPa	ISO 178
Flexural Stress (23°C)	84.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature	165	°C	ISO 11357-3
CLTE - Flow	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	19	kV/mm	IEC 60243-1
NOTE			
1.	100mm diameter		

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