

Kepital® FB2030

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

An easy-flowing grade for general injection molding. It was reinforced glass beads, and so suitable for parts requiring low warpage and sinking phenomenon.

General Information			
UL YellowCard	E120354-220449		
Filler / Reinforcement	Glass Bead		
Features	Good Flow		
	Low Warpage		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.63	g/cm ³	ASTM D792
--	1.64	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	18	g/10 min	ASTM D1238
--	19	g/10 min	ISO 1133
Molding Shrinkage - Flow			
2.00 mm	1.5	%	ASTM D955
--	1.5	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	57.0	MPa	ASTM D638
Break, 23°C	58.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
23°C	4040	MPa	ASTM D790
23°C	4050	MPa	ISO 178
Flexural Stress			
23°C	97.0	MPa	ISO 178
Yield, 23°C	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	2.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	138	°C	ASTM D648
Peak Melting Temperature	165	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257, IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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