

Kepital® FG2015

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium viscosity grade for general injection molding. It was reinforced glass fiber, and so suitable for parts requiring very high stiffness, fatigue resistance, creep resistance, and heat resistance.

General Information			
UL YellowCard	E120354-220452		
Filler / Reinforcement	Glass Fiber		
Features	Fatigue Resistant		
	Good Creep Resistance		
	High Stiffness		
	Medium Heat Resistance		
	Medium Viscosity		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	12	g/10 min	ASTM D1238
--	12	g/10 min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	0.80	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	111	MPa	ASTM D638
Break, 23°C	120	MPa	ISO 527-2
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break, 23°C	3.6	%	ISO 527-2
Flexural Modulus			
23°C	5350	MPa	ASTM D790
23°C	5200	MPa	ISO 178
Flexural Strength			
23°C	157	MPa	ASTM D790
23°C	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	164	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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