

Kepital® FT2020

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium-low viscosity grade for general injection molding. It was reinforced with whisker, and so suitable for parts requiring much higher stiffness, dimensional accuracy and low warpage.

General Information			
UL YellowCard	E120354-220458		
Filler / Reinforcement	Whisker		
Features	Good Dimensional Stability		
	High Stiffness		
	Low Warpage		
	Medium-low Viscosity		
Uses	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	15	g/10 min	ASTM D1238
--	15	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	0.80	%	ASTM D955
3.00 mm	0.90	%	
Water Absorption (24 hr)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	85.0	MPa	ASTM D638
Yield, 23°C	86.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	4.0	%	ASTM D638
Nominal Tensile Strain at Break	2.7	%	ISO 527-2
Flexural Modulus			
23°C	7010	MPa	ASTM D790
23°C	6800	MPa	ISO 178
Flexural Strength			
23°C	142	MPa	ASTM D790
23°C	146	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	3.6	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
Peak Melting Temperature	165	°C	ASTM D3418
CLTE - Flow (20 to 80°C)	6.0E-5	cm/cm/°C	ASTM D696
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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