

Kepital® TG-61

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium-high viscosity grade for general injection molding. It was reinforced glass fiber, and so suitable for use where it needs the characteristics of wear and abrasion resistance.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Abrasion Resistance		
	Good Wear Resistance		
	Medium-high Viscosity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.65	g/cm ³	ASTM D792
--	1.64	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	5.0	g/10 min	ASTM D1238
--	5.0	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	0.50	%	ASTM D955
3.00 mm	0.20	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	147	MPa	ASTM D638
Yield, 23°C	170	MPa	ISO 527-2
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break, 23°C	2.0	%	ISO 527-2
Flexural Modulus			
23°C	9190	MPa	ASTM D790
23°C	10000	MPa	ISO 178
Flexural Strength			
23°C	201	MPa	ASTM D790
23°C	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	164	°C	ASTM D648
1.8 MPa, Unannealed	163	°C	ISO 75-2/A
Peak Melting Temperature	165	°C	ASTM D3418
CLTE - Flow (20 to 80°C)	1.3E-4	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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