

Kepital® TC3010

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A low viscosity grade for general injection molding. It was modified with talcum, and so suitable for parts requiring more reducing deformation than that of standard grade under same stress.

Exhibits excellent dimensional accuracy.

General Information			
UL YellowCard	E120354-220465		
Filler / Reinforcement	Talc		
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Moldability		
	Good Thermal Stability		
	Good Wear Resistance		
	Low Viscosity		
	Low Warpage		
Uses	Automotive Applications		
	Cams		
	Electrical Parts		
	Electronic Data Processing		
	Gears		
	General Purpose		
	Industrial Parts		
	Machine/Mechanical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.48	g/cm ³	ASTM D792
--	1.56	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	21	g/10 min	ASTM D1238
--	21	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	1.7	%	ASTM D955

3.00 mm	1.7	%	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	62.0	MPa	ASTM D638
Yield, 23°C	67.0	MPa	ISO 527-2
Tensile Elongation			
Break, 23°C	8.0	%	ASTM D638
Break, 23°C	5.0	%	ISO 527-2
Flexural Modulus			
23°C	4080	MPa	ASTM D790
23°C	4200	MPa	ISO 178
Flexural Strength			
23°C	104	MPa	ASTM D790
23°C	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.4	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	41	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	144	°C	ASTM D648
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
Melting Temperature	165	°C	
CLTE - Flow (20 to 80°C)	8.0E-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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