

Kepital® TE-21

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium viscosity grade for general injection molding. It was modified with elastomer, and suitable for parts requiring much higher impact resistance and toughness.

General Information			
UL YellowCard	E120354-220466		
Features	Impact resistance, high		
	Good toughness		
	Medium viscosity		
Uses	General		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	11	g/10 min	ASTM D1238
--	11	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 2.00mm	1.5	%	ASTM D955
3.00 mm	1.9	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	53.0	MPa	ASTM D638
Yield, 23°C	57.0	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	130	%	ASTM D638
Fracture, 23°C	40	%	ISO 527-2
Flexural Modulus			
23°C	2210	MPa	ASTM D790
23°C	2150	MPa	ISO 178
Flexural Strength (23°C)	76.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	100	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	100	°C	ASTM D648
1.8 MPa, not annealed	84.0	°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
Additional Information			

Weld Elongation, ASTM D638, 23°C: 20%

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