

Kepital® GD-52

Acetal (POM) Copolymer
Korea Engineering Plastics Co., Ltd

Message:
An easy flowing grade for general injection molding and so suitable for parts requiring a good weather resistance and low gloss.

General Information			
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Moldability		
	Good Thermal Stability		
	Good Wear Resistance		
	Good Weather Resistance		
	Low Friction		
	Low Gloss		
	Medium Viscosity		
Uses	Automotive Applications		
	Electrical Parts		
	Electronic Data Processing		
	General Purpose		
	Industrial Parts		
	Machine/Mechanical Parts		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	23	g/10 min	ASTM D1238
190°C/2.16 kg	25	g/10 min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	1.7	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			

Yield, 23°C	58.0	MPa	ASTM D638
Yield, 23°C	59.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	30	%	ASTM D638
Nominal Tensile Strain at Break	14	%	ISO 527-2
Flexural Modulus (23°C)	2750	MPa	ASTM D790, ISO 178
Flexural Strength			
23°C	87.0	MPa	ASTM D790
23°C	86.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	115	°C	ASTM D648
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
Electric Strength	19	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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