

Kepital® GR-30

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A low viscosity grade for general injection molding. Suitable for use where wear resistance, low noise and excellent dimensional stability are required when contacting metal and resin.

General Information			
Features	Good Dimensional Stability		
	Good Wear Resistance		
	Low Viscosity		
	Noise Damping		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.44	g/cm ³	ASTM D792
--	1.43	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	22	g/10 min	ASTM D1238
--	20	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	1.8	%	ASTM D955
3.00 mm	1.8	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	44.0	MPa	ASTM D638
Break, 23°C	48.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	80	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	40	%	ISO 527-2
Flexural Modulus			
23°C	2060	MPa	ASTM D790
23°C	2150	MPa	ISO 178
Flexural Strength			
23°C	65.0	MPa	ASTM D790
23°C	66.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	106	°C	ASTM D648
Peak Melting Temperature	165	°C	ASTM D3418
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	HB		UL 94

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