

Kepital® F40-03

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

Message:
An extremely easy-flowing grade for injection molding of thin walled precision parts. It has improved on thermal stability.

General Information			
UL YellowCard	E120354-220447		
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Thermal Stability		
	Good Wear Resistance		
Uses	Automotive Applications		
	Electrical Parts		
	Electronic Data Processing		
	Industrial Parts		
	Machine/Mechanical Parts		
	Thin-walled 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	52	g/10 min	ASTM D1238
--	52	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 3.00 mm	2.0	%	ASTM D955
3.00 mm	2.0	%	
Water Absorption (Equilibrium, 23°C, 60%)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	61.0	MPa	ASTM D638

Yield, 23°C	65.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	40	%	ASTM D638
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus			
23°C	2650	MPa	ASTM D790
23°C	2750	MPa	ISO 178
Flexural Strength			
23°C	89.0	MPa	ASTM D790
23°C	93.0	MPa	ISO 178
Shear Strength (2.00 mm)	55.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	158	°C	ASTM D648
1.8 MPa, Unannealed	110	°C	ASTM D648
1.8 MPa, Unannealed	101	°C	ISO 75-2/A
Melting Temperature	165	°C	
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
Dielectric Strength	19	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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