

Kepital® F30-02

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

Message:
An easy-flowing standard grade for injection molding of thin walled parts.

General Information			
UL YellowCard	E120354-220446		
Features	Copolymer		
	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Flow		
	Good Moldability		
	Good Thermal Stability		
	Good Wear Resistance		
	Low Viscosity		
Uses	Automotive Applications		
	Electrical Parts		
	Electronic Data Processing		
	Thin-walled Parts		
Appearance	Colors Available		
	Natural Color		
	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	2.0	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	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)	62.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	40	%	ASTM D638

Flexural Modulus (23°C)	2650	MPa	ASTM D790
Flexural Strength (23°C)	91.0	MPa	ASTM D790
Shear Strength (2.00 mm)	55.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	110	°C	
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
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
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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