

Kepital® F25-03H

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium-low viscosity grade for general injection molding with high-stiffness. It has improved on thermal stability.

General Information			
UL YellowCard	E120354-220445		
Features	Good Thermal Stability		
	High Stiffness		
	Low Viscosity		
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)	13	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow : 3.00 mm	2.0	%	ASTM D955
3.00 mm	2.0	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	65.0	MPa	ASTM D638
Yield, 23°C	68.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	55	%	ASTM D638
Nominal Tensile Strain at Break	32	%	ISO 527-2
Flexural Modulus			
23°C	2790	MPa	ASTM D790
23°C	2800	MPa	ISO 178
Flexural Strength			
23°C	93.0	MPa	ASTM D790
23°C	94.0	MPa	ISO 178
Shear Strength (2.00 mm)	56.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.5	kJ/m ²	ISO 179/1eA

Notched Izod Impact (3.20 mm)	69	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	112	°C	ASTM D648
1.8 MPa, Unannealed	101	°C	ISO 75-2/A
Melting Temperature	165	°C	DSC
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	ASTM D149, 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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