

Kepital® F20-03M

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

Message:

A medium-viscosity grade for general injection molding
Features improved resistance in hot water and high temperature/humidity

General Information			
UL YellowCard	E120354-220441		
Features	Moisture proof		
	Copolymer		
	Heat resistance, high		
	Medium viscosity		
Uses	General		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
shrinkage-Flow (3.00 mm)	2.0	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2750	MPa	ISO 527-2
Tensile Stress	65.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	10	%	ISO 527-2
Fracture	35	%	ISO 527-2
Flexural Modulus	2550	MPa	ISO 178
Flexural Stress	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m ²	ISO 179/1eA
23°C	6.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature ¹	165	°C	ISO 11357-3

CLTE - Flow	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength	19	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80 - 100	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Hopper Temperature	60 - 80	°C	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	190 - 200	°C	
Nozzle Temperature	180 - 210	°C	
Mold Temperature	60 - 80	°C	
Back Pressure	< 2.00	MPa	
NOTE			
1.	10°C/min		

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