

Kepital® FM2020

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium viscosity grade for general injection molding. It was modified with MoS₂, and so suitable for parts requiring a good friction & wear resistance and high stiffness.

General Information			
UL YellowCard	E120354-220455		
Additive	Molybdenum Disulfide Lubricant		
Features	Good Wear Resistance		
	High Stiffness		
	Low Friction		
	Medium Viscosity		
Uses	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	10	g/10 min	ASTM D1238
--	11	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% 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
Yield, 23°C	65.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	50	%	ASTM D638
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus			
23°C	2600	MPa	ASTM D790
23°C	2690	MPa	ISO 178
Flexural Strength (23°C)	90.0	MPa	ASTM D790, 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)	67	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	124	°C	ASTM D648
Peak Melting Temperature	165	°C	ASTM D3418
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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