

Kepital® FL2020

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium-high viscosity grade for general injection molding. It was modified with 20% PTFE powder, and so suitable for parts requiring low wear and friction.

General Information			
UL YellowCard	E120354-220454		
Additive	PTFE Lubricant (20%)		
Features	Low Friction		
	Medium-high Viscosity		
Uses	Gears		
	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	5.0	g/10 min	ASTM D1238
--	5.0	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 3.00 mm	2.1	%	ASTM D955
3.00 mm	2.1	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 60% RH)	0.18	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	44.0	MPa	ASTM D638
Yield, 23°C	45.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	20	%	ASTM D638
Nominal Tensile Strain at Break	15	%	ISO 527-2
Flexural Modulus			
23°C	2100	MPa	ASTM D790
23°C	2150	MPa	ISO 178
Flexural Strength			

23°C	65.0	MPa	ASTM D790
23°C	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°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
Dielectric Strength	16	kV/mm	ASTM D149, IEC 60243-1
Dielectric Constant (1 MHz)	3.10		ASTM D150
Dissipation Factor (1 MHz)	9.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT