

Kepital® FC2020D

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium-high viscosity grade for general injection molding. It was modified with electrically conductive carbon fiber, and so suitable for parts requiring conductive property and high stiffness.

General Information			
UL YellowCard	E120354-220450		
Filler / Reinforcement	Carbon Fiber		
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Flow		
	Good Moldability		
	Good Stiffness		
	Good Thermal Stability		
	Good Wear Resistance		
	Good Weather Resistance		
Uses	Medium-high Viscosity		
	Automotive Applications		
	Electrical Parts		
	Electronic Data Processing		
	General Purpose		
	Industrial Parts		
	Machine/Mechanical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.45	g/cm ³	ASTM D792
--	1.46	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	5.5	g/10 min	ASTM D1238
--	5.5	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	0.40	%	ASTM D955
3.00 mm	0.40	%	ISO 294-4

Water Absorption (Equilibrium, 23°C, 60% RH)	0.36	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	123	MPa	ASTM D638
Yield, 23°C	140	MPa	ISO 527-2
Tensile Elongation			
Break, 23°C	1.0	%	ASTM D638
Break, 23°C	1.5	%	ISO 527-2
Flexural Modulus			
23°C	13500	MPa	ASTM D790
--	16000	MPa	ISO 178
Flexural Strength			
23°C	165	MPa	ASTM D790
--	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	164	°C	ASTM D648
1.8 MPa, Unannealed	163	°C	ISO 75-2/A
Peak Melting Temperature	165	°C	ASTM D3418
CLTE - Flow (20 to 80°C)	1.5E-5	cm/cm/°C	ASTM D696
RTI Elec (0.800 mm)	50.0	°C	UL 746
RTI Imp (0.800 mm)	50.0	°C	UL 746
RTI Str (0.800 mm)	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+2	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+2	ohms·cm	ASTM D257, IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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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



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