

Kepital® FC2020H

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

Kepital® FC2020H is an Acetal (POM) Copolymer material filled with 20% carbon fiber. It is available in Asia Pacific, Europe, or North America.

Important attributes of Kepital® FC2020H are:

Flame Rated

Chemical Resistant

Creep Resistant

Fatigue Resistant

Good Processability

Typical applications include:

Electrical/Electronic Applications

Engineering/Industrial Parts

Automotive

General Information			
UL YellowCard	E120354-220450		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
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	Automotive Applications		
	Electrical Parts		
	Electronic Data Processing		
	Industrial Parts		
	Machine/Mechanical Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40	%	ASTM D955
Water Absorption (24 hr)	0.28	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	167	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	13200	MPa	ASTM D790
Flexural Strength	245	MPa	ASTM D790
Shear Strength	80.3	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Tensile Impact Strength (1.60 mm)	158	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	164	°C	
1.8 MPa, Unannealed	163	°C	
Melting Temperature	165	°C	
CLTE - Flow	1.5E-6	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	5.0E+5	ohms	ASTM D257
Volume Resistivity	2.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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