

Kepital® FW-21

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

Kepital® FW-21 is an Acetal (POM) Copolymer material filled with filler. It is available in Asia Pacific, Europe, or North America.

Important attributes of Kepital® FW-21 are:

Flame Rated

Chemical Resistant

Creep Resistant

Fatigue Resistant

Good Processability

Typical applications include:

Engineering/Industrial Parts

Electrical/Electronic Applications

Automotive

General Information			
Filler / Reinforcement	Filler		
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Flow		
	Good Moldability		
	Good Thermal Stability		
	Good Wear Resistance		
	Good Weather Resistance		
Uses	Automotive Applications		
	Bushings		
	Cams		
	Electrical Parts		
	Electronic Data Processing		
	Gears		
	Industrial Parts		
	Machine/Mechanical Parts		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0	%	ASTM D955
Water Absorption (24 hr)	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	55.9	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Shear Strength	52.9	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	48	J/m	ASTM D256
Tensile Impact Strength (1.60 mm)	77.8	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	109	°C	
Melting Temperature	165	°C	
CLTE - Flow	1.3E-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	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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Recommended distributors for this material

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