

Kepital® F30-52

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A low viscosity U.V. stabilized grade suitable for outdoor use.

General Information			
UL YellowCard	E120354-220446		
Additive	UV Stabilizer		
Features	Low Viscosity		
Uses	Outdoor Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	26	g/10 min	ASTM D1238
--	28	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	59.0	MPa	ASTM D638
Yield, 23°C	63.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	85	%	ASTM D638
Nominal Tensile Strain at Break	37	%	ISO 527-2
Flexural Modulus			
23°C	2580	MPa	ASTM D790
23°C	2450	MPa	ISO 178
Flexural Strength			
23°C	85.0	MPa	ASTM D790
23°C	83.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°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
--	1.0E+14	ohms	IEC 60093
Volume Resistivity			
--	1.0E+14	ohms·cm	ASTM D257
--	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength	19	kV/mm	ASTM D149, IEC 60243-1
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
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

