

Kepital® ET-20S

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium viscosity grade for general injection molding. It was modified with electrically conductive carbon black, and so suitable for parts requiring electric conductivity.

General Information			
UL YellowCard	E120354-220439		
Additive	Carbon Black		
Features	Electrically Conductive		
	General Purpose		
	Medium Viscosity		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	11	g/10 min	ASTM D1238
--	12	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	1.6	%	ASTM D955
3.00 mm	1.6	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	39.0	MPa	ASTM D638
Yield, 23°C	40.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	15	%	ASTM D638
Nominal Tensile Strain at Break	12	%	ISO 527-2
Flexural Modulus			
23°C	2550	MPa	ASTM D790
23°C	2650	MPa	ISO 178
Flexural Strength			

23°C	66.0	MPa	ASTM D790
23°C	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	105	°C	ASTM D648
1.8 MPa, Unannealed	88.0	°C	ISO 75-2/A
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+2	ohms	ASTM D257
--	1.0E+3	ohms	IEC 60093
Volume Resistivity	50	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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