

Kepital® TE-24

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium viscosity grade improved on thermal stability, for general injection molding. It was modified with elastomer, and suitable for parts requiring a much higher impact resistance and toughness.

General Information			
UL YellowCard	E120354-220466		
Features	General Purpose		
	Good Thermal Stability		
	Good Toughness		
	High Impact Resistance		
	Medium Viscosity		
Uses	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.34	g/cm ³	ASTM D792
--	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	7.0	g/10 min	ASTM D1238
--	6.0	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	1.4	%	ASTM D955
3.00 mm	1.7	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	0.24	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	39.0	MPa	ASTM D638
Yield, 23°C	41.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	260	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	> 60	%	ISO 527-2
Flexural Modulus			
23°C	1540	MPa	ASTM D790
23°C	1450	MPa	ISO 178
Flexural Strength			
23°C	52.0	MPa	ASTM D790

23°C	53.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	87.0	°C	ASTM D648
1.8 MPa, Unannealed	66.0	°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+16	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257, IEC 60093
Electric Strength	21	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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