

Kepital® TX-21

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium viscosity grade for general injection molding. It is suitable for use requiring reduced wear noise, and a good friction and wear resistance without sacrificing mechanical properties.

General Information			
UL YellowCard	E120354-220469		
Features	Low friction coefficient		
	Good wear resistance		
	Medium viscosity		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	14	g/10 min	ASTM D1238
--	16	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 3.00mm	2.0	%	
Flow direction: 3.00mm	2.0	%	
Water Absorption (Equilibrium, 23°C, 60% RH)	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			
Yield, 23°C	54.0	MPa	ASTM D638
Fracture	58.0	MPa	ISO 527-2
Tensile Elongation (Yield, 23°C)	65	%	ASTM D638
Nominal Tensile Strain at Break	33	%	ISO 527-2
Flexural Modulus			
23°C	2400	MPa	ASTM D790
--	2350	MPa	ISO 178
Flexural Stress			
--	79.0	MPa	ISO 178
Yield, 23°C	78.0	MPa	ASTM D790
Coefficient of Friction			ASTM D1894

With Metal-Dynamic	0.23		ASTM D1894
With self-dynamics	0.18		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	74	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	158	°C	ASTM D648
1.8 MPa, not annealed	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, IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257, IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Additional Information			

Specific Wear: Resin vs. Resin - .10 mm³/kgkm Specific Wear: Resin vs. Metal - .03 mm³/kgkm

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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

