

Kepital® TX-11H

Acetal (POM) Copolymer
Korea Engineering Plastics Co., Ltd

Message:

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

General Information			
UL YellowCard	E120354-220469		
Features	Rigid, good		
	Noise reduction		
	Good wear resistance		
	Medium and high viscosity		
Uses	General		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	5.0	g/10 min	ASTM D1238
--	5.0	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 3.00mm	2.0	%	ASTM D955
3.00 mm	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	60.0	MPa	ASTM D638
Yield, 23°C	64.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	60	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	40	%	ISO 527-2
Flexural Modulus			
23°C	2500	MPa	ASTM D790
23°C	2550	MPa	ISO 178
Flexural Strength			
23°C	82.0	MPa	ASTM D790

23°C	86.0	MPa	ISO 178
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.27		ASTM D1894
With self-dynamics	0.22		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)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	158	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	97.0	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Additional Information			

Specific Wear, Resin vs. Resin: 2.5 mm³/Kg*Km Specific Wear, Resin vs. Metal: 0.02 mm³/Kg*Km

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