

Global EPP POM C Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Polyacetals are highly crystalline thermoplastics, characterised by their high mechanical strength, rigidity and impact resistance. Acetal absorbs very little moisture, enabling the product to maintain constant physical properties in a variety of changing environments. POM exhibits excellent dimensional stability and is ideally suited to close tolerance mechanical parts. Key characteristics: High mechanical strength and rigidity, High impact strength and creep resistance, Excellent dimensional stability and machinability, Low moisture absorption, Good electrical insulating and dielectric properties, No centreline porosity in copolymer grades, Suitable for food contact. The copolymer grade is the ideal combination of strength, stiffness and wear resistance. It absorbs very little moisture, is easily machinable and is genuinely porosity-free, making it the preferred grade for food contact and medical applications. The product exhibits an elevated resistance to hydrolysis, strong alkalis and thermal-oxidative degradation when compared to acetal homopolymer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Global-EPP-POM-C-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	Test Method A; ISO 1183:1987
Water Absorption	0.20 % @Temperature 23.0 °C, Time 86400 sec	0.20 % @Temperature 73.4 °F, Time 24.0 hour	Immersion; ISO 62:1999 (modified)
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ISO 62:1999
Water Absorption at Saturation	0.90 %	0.90 %	ISO 62:1999

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ISO 868:2003
Tensile Strength at Break	70.0 MPa	10200 psi	Sample Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 15 %	>= 15 %	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Modulus of Elasticity	3.10 GPa	450 ksi	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Flexural Strength	80.0 MPa	11600 psi	1.5 mm/min; ISO 178:2001
Flexural Modulus	2.60 GPa	377 ksi	1.5 mm/min; ISO 178:2001
Compressive Strength	110 MPa	16000 psi	Sample Type B, 5 mm/min; ISO 604:2002
Compressive Modulus	2.60 GPa	377 ksi	Sample Type A, 1 mm/min; ISO 604:2002

Impact, Notched (ISO) Mechanical Properties	7.20 kJ/mÂ² Metric	3.43 ft-lb/inÂ² English	Sample Type A; ISO 180:2000 Comments
Coefficient of Friction, Dynamic	0.25	0.25	31.4 m/min
	@Pressure 1.75 MPa	@Pressure 254 psi	
Limiting Pressure Velocity	0.100 MPa-m/sec	2860 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear	92.0 Âµm/m-Â°C	51.1 Âµin/in-Â°F	ISO 11359-2:1999
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ftÂ²-Â°F	ISO 8301:1991
Melting Point	170 Â°C	338 Â°F	
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	Continuous
	140 Â°C	284 Â°F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	ISO 75
Glass Transition Temp, Tg	-60.0 Â°C	-76.0 Â°F	ISO 11359-2:1999
Flammability, UL94	HB	HB	IEC 60695-11-10:2003-08

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093:1980-01
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093:1980-01
Dielectric Constant	3.8	3.8	IEC 60250:1969-01
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	16.5 kV/mm	419 kV/in	IEC 60243-1:1998-01
Dissipation Factor	0.0050	0.0050	IEC 60250:1969-01
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112:2003-01

Descriptive Properties	Value	Comments
Color	White, Black, and others	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China