

Zell-Metall Engineering Plastics Zellamid 900 (POM-C)

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

Material Notes:

Zellamid® 900 is the registered trademark of Zell-Metall's high molecular weight Acetal resin. Acetal (POM) is noted for its high mechanical strength, heat resistance and good antifriction properties. As water absorption is almost nil dimensional accuracy and stability is higher than that of nylons. Physical properties remain unchanged in various environments. This material is manufactured in natural - Zellamid® 900 and black color - Zellamid® 900 SW, using Copolymer resin. Homopolymer Acetal is available on special request. Typical applications are gears, levers, springs, snap connectors, cam switches, clamps, pump components, mud handling equipment, electronic and office machines . Acetal lends itself also to all submerged applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-900-POM-C.php

Physical Properties	Metric	English	Comments
Density	1.41 - 1.43 g/cc	0.0509 - 0.0517 lb/in ³	
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Saturation at 50% RH; ISO 1110; DIN 53714
Water Absorption at Saturation	0.25 %	0.25 %	23°C; ISO 62; DIN 53495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	115 MPa	16700 psi	H 358/30; ISO 2039; DIN 53456
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527; DIN 53455
Elongation at Break	40 %	40 %	ISO 527; DIN 53455
Tensile Modulus	3.00 GPa	435 ksi	ISO 527; DIN 53452
Charpy Impact Unnotched	80.0 J/cm ² - NB	381 ft-lb/in ² - NB	ISO 179; DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ISO 179; DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	DIN 52612
Melting Point	164 - 168 °C	327 - 334 °F	ISO 1218 Method A; DIN 53736
			20,000 hours; 50% Tensile Strength;

Maximum Service Temperature, Air Thermal Properties	100 °C Metric	212 °F English	IEC 216; DIN 53446 Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75; DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO 75; DIN 53461
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Flame Spread	25.0 mm/min	0.984 in/min	BH3; VDE 0304T3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 167; DIN 53482
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	IEC 250; DIN 53483
Dielectric Strength	>= 55.0 kV/mm	>= 1400 kV/in	IEC 243; DIN 53481
Dissipation Factor	0.024 @Frequency 1e+6 Hz	0.024 @Frequency 1e+6 Hz	IEC 250; DIN 53483
Comparative Tracking Index	>= 600 V	>= 600 V	KB Method; IEC 112; DIN 53480

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