

Westlake Plastics Pomalux® SD-A Acetal Copolymer (anti-static)

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

Material Notes:

Non-carbon-filled, permanently static-dissipative material which is non-migratory and non-humidity dependent. With enhanced lubricity, POMALUX SD-A provides superior wear resistance and ease of machining. Its extremely low outgassing values and non-sloughing characteristics make it ideal for applications where particulate generation cannot be tolerated. Enhanced lubricity, chemically resistant, and dimensionally stable. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Pomalux-SD-A-Acetal-Copolymer-anti-static.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Water Absorption	2.5 %	2.5 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D2240
Tensile Strength, Yield	45.5 MPa	6600 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Flexural Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	117 µm/m-°C	65.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.303 W/m-K	2.10 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	131 °C	267 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.6 °C	141 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric 1.00e+9 - 1.00e+11 ohm-cm	English 1.00e+9 - 1.00e+11 ohm-cm	Comments D257
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	Dry; ASTM D257
Static Decay	<= 0.30 sec	<= 0.30 sec	15% RH; MIL-B-81705-B

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