

Static Control

Pomalux SD-A (Static-dissipative acetal copolymer) 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.

Pomalux CN-F (Conductive Acetal Copolymer) Non-sloughing carbon-fiber-filled material which is extremely strong and stiff with excellent dimensional stability. Abrasion-resistant, highly chemical-resistant, with temperature resistance to 320° F.

Pomalux CN-SS (Conductive Acetal Copolymer) Stainless-steel-fiber-filled, non-sloughing, dimensionally stable material HDT @ 264 psi of 225° F. This material has relatively high chemical resistance, is extremely strong and stiff, and is an excellent choice for situations where carbon-based conductive fillers are not acceptable. Easily machined with carbide-tipped tooling to tight tolerances.

The following physical property information is based on typical values of the resin.

	Units	ASTM Test	Pomalux SD-A	Pomalux CN-F	Pomalux CN-SS
Mechanical					
Tensile strength @yield	psi	D638	6,200	11,800	8,600
Tensile elongation @break	%	D638	35.0	3.5	–
Flexural strength	psi	D790	8,600	13,700	13,000
Flexural modulus	psi	D790	260,000	1,350,000	400,000
Izod impact strength					
Notched	ft•lbs/in	D256	1.3	1.0	0.7
Un-Notched	ft•lbs/in	D256	30.0	3.0	–
Hardness–Shore D		D2240	76	88	86
Thermal					
Heat deflection temperature					
@264 psi	°F	D648	192	320	225
@66 psi	°F	D648	312	–	–
Coefficient of thermal expansion	in/in/°F	D696	6.5 x 10 ⁻⁵	–	–
Thermal conductivity	BTU in/hr•ft ² •°F		2.04	–	–
Flammability rating–UL94 @.030"			HB	–	HB
Electrical					
Surface resistivity dry	ohm/sq	D257	10 ⁸ - 10 ¹⁰	10 ² - 10 ⁶	10 ² - 10 ⁶
Volume resistivity dry	ohm/cm	D257	10 ⁸ - 10 ¹⁰	10 ³ - 10 ⁷	10 ² - 10 ⁶
Static decay, 15% RH	seconds	MIL-B-81705-B	0.18	–	–
Other					
Specific gravity		D792	1.33	1.46	1.5
Water absorption @24 hours	%	D570	2.50	0.23	–

CN-F = conductive carbon-fiber-filled material
 SD-A = static-dissipative non-carbon-alloy-filled material
 CN-SS = conductive stainless-steel-fiber-filled material

¹Ultimate elongation



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Applications Include:

- Disk drive assembly fixtures
- Semiconductor/electronic components
- Telecommunication hardware
- Automotive equipment

Advantages of Pomalux SD-A, CN-F and CN-SS:

- Low outgassing
- Consistent resistivity values
- Ease of machining
- Good chemical resistance

Manufacturing Capabilities:

- Rod:** 1/8" to 4" diameter
- Sheet:** .030" to 4" thick
- Film:** .002" to .029" thick

Colors/Grades:

- SD-A—Natural (beige)
- CN-F—Black
- CN-SS—Dark Gray

*In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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