

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

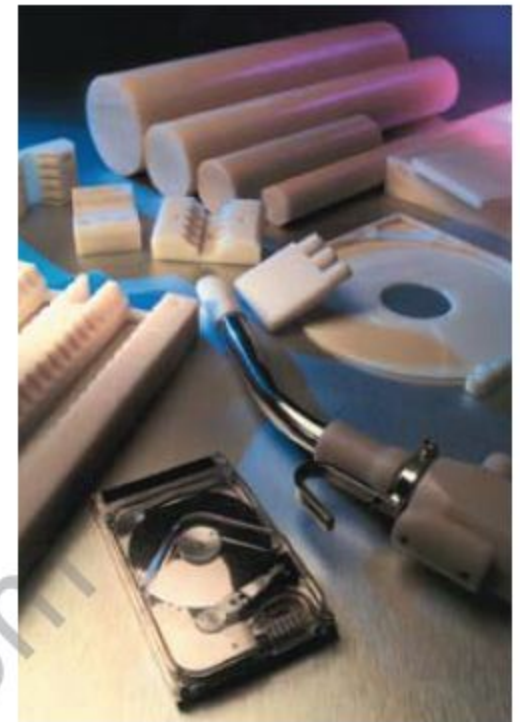
CN-SS = conductive stainless-steel-fiber-filled material

¹Ultimate elongation

WESTLAKE PLASTICS COMPANY

World Headquarters
P.O. Box 127, Lenni, PA 19052
1-800-999-1700 • Fax: (610) 459-1084

www.westlakeplastics.com



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.



Alpert Engineering Ltd
Dublin Industrial Estate,
Glasnevin, Dublin 11, Ireland
www.alpert.com info@alperton.ie
Phone +353 1 8306277

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