

# Static Control Absylux®

(static control ABS)

**ABSYLUX® CN-F (Conductive Acrylonitrile-Butadiene-Styrene)** Non-sloughing, carbon-fiber-filled material with high strength and stiffness; easily machined.

**ABSYLUX® CN-P (Conductive Acrylonitrile-Butadiene-Styrene)** Carbon-powder-filled conductive material with high strength and stiffness, and relatively high impact strength. This material is easily machined and fabricated into close tolerance finished parts.

**ABSYLUX® SD-A (Static-dissipative Acrylonitrile-Butadiene-Styrene)** Non-carbon-filled anti-static material which has high impact strength, good tensile and flexural strength, and is easily machined. Available in natural or black, it can be easily thermoformed in thinner gauges, and is bondable with WELD-ON® 1707.

**CRYSTAT® (Anti-static Acrylonitrile-Butadiene-Styrene)** Semitransparent, inherently anti-static material available in roll stock and thin gauge sheet. Its strength and clarity make it excellent for thermoforming.

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

	Units	ASTM Test	Absylux CN-F	Absylux CN-P	Absylux SD-A	Crystat
<b>Mechanical</b>						
Tensile strength @yield	psi	D638	17,250	4,000	5,000	4,200
Tensile elongation @break	%	D638	2.5	11.0	13.0	10.0
Flexural strength	psi	D790	23,500	7,200	8,000	7,500
Flexural modulus	psi	D790	1,450,000	280,000	260,000	225,000
Izod impact strength						
Notched	ft•lbs/in	D256	1.0	1.0	6.0	2.1
Un-Notched	ft•lbs/in	D256	3.5	13.5	No Break	-
Hardness-Shore D		D2240	-	-	68	-
<b>Thermal</b>						
Heat deflection temperature						
@264 psi	°F	D648	215	185	160	176
@66 psi	°F	D648	-	-	190	-
Flammability rating-UL94			HB	HB	HB	-
<b>Electrical</b>						
Surface resistivity dry	ohm/sq	D257	10 <sup>2</sup> - 10 <sup>5</sup>	10 <sup>2</sup> - 10 <sup>6</sup>	10 <sup>9</sup> - 10 <sup>11</sup>	3 x 10 <sup>11</sup>
Volume resistivity dry	ohm/cm	D257	10 <sup>2</sup> - 10 <sup>5</sup>	10 <sup>2</sup> - 10 <sup>6</sup>	10 <sup>9</sup> - 10 <sup>11</sup>	-
Static decay, 15% RH	seconds	Mil-B-81705-B	<0.1	<0.1	<0.3	-
<b>Other</b>						
Specific gravity		D792	1.14	1.13	1.03	1.10
Water absorption @24 hours	%	D570	0.26	0.30	1.70	-



**Applications Include:**

- Disk drive assembly fixtures
- Semiconductor/electronic components
- Electronic component transfer trays
- Telecommunications hardware
- Automotive equipment

**Advantages of Static Control Absylux:**

- Good strength and stiffness
- Cost effective
- Easily machined
- Good chemical resistance
- Durable
- Bondable

**Manufacturing Capabilities:**

- Rod:** 1/8" to 4" diameter
- Sheet:** .030" to 4" thick
- Film:** .010" to .029" thick

**Colors/Grades:**

- SD-A—Natural (beige)
- CN-F—Black
- CN-P—Black

\*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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