



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.

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.

	Units	ASTM Test	Absylux CN-F	Absylux CN-P	Absylux SD-A	Crystat
Mechanical						
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	–
Thermal						
Heat deflection temperature						
@264 psi	°F	D648	215	185	160	176
@66 psi	°F	D648	–	–	190	–
Flammability rating-UL94			HB	HB	HB	–
Electrical						
Surface resistivity dry	ohm/sq	D257	10 ² - 10 ⁵	10 ² - 10 ⁶	10 ⁹ - 10 ¹¹	3 x 10 ¹¹
Volume resistivity dry	ohm/cm	D257	10 ² - 10 ⁵	10 ² - 10 ⁶	10 ⁹ - 10 ¹¹	–
Static decay, 15% RH	seconds	Mil-B-81705-B	<0.1	<0.1	<0.3	–
Other						
Specific gravity		D792	1.14	1.13	1.03	1.10
Water absorption @24 hrs	%	D570	0.26	0.30	1.70	–

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