

ABS ABSYLUX[®] CN-P

ElectroStatic Discharge

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Absylux CN-P is a conductive ABS (carbon powder filled). Surface Resistivity dry (106 – 109 ohm/sq). Absylux CN-P is easy to machine and fabricate. Absylux CN-P is an ideal material for structural applications when high impact, strength and stiffness are required. It can be easily thermoformed in thinner gauges and is bondable.



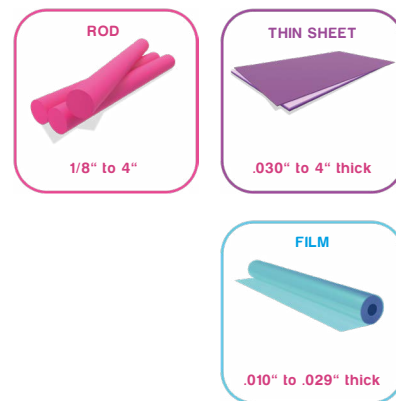
The following physical property information is based on typical values of the base acrylonitrile-butadiene- styrene resin.

Electrical Properties	Test Method	Result	
		Metric	English
Surface Resistivity dry	ASTM D257	10 ² - 10 ⁶ ohm/sq	10 ² - 10 ⁶ ohm/sq
Volume Resistivity dry	ASTM D257	10 ² - 10 ⁶ ohm-cm	393 - 3937008 ohm-in
Static Decay 15% RH	Mil-B-81705-B	< 0.1 seconds	< 0.1 seconds
Mechanical Properties	Test Method	Result	
		Metric	English
Tensile Strength at yeild	ASTM D638	28 MPa	4 kpsi
Tensile Elongation at break	ASTM D638	11 %	11 %
Flexural Strength	ASTM D790	50 MPa	7.2 kpsi
Flexural Modulus	ASTM D790	1931 MPa	280 kpsi
Izod Impact Strength Notched	ASTM D256	0.53 J/cm	1 ft-lb/in
Izod Impact Strength Un-notched	ASTM D256	7.21 J/cm	13.5 ft-lb/in
Hardness-Shore D	ASTM D2240		
Other Properties	Test Method	Result	
		Metric	English
Specific Gravity	ASTM D792	1.03	1.03
Water Absorption at 24 hours	ASTM D570	0.3 %	0.3 %
Thermal Properties	Test Method	Result	
		Metric	English
Heat Deflection Temp. at 264 psi	ASTM D648	85 °C	185 °F
Heat Deflection Temp. at 66 psi	ASTM D648	°C	°F
Flam. Rating-UL94	-	HB	HB

Applications Include:

- Semiconductor Packaging, Process and Testing Components
- Disk drive assembly fixtures
- Telecommunications hardware
- Sensitive Electronic components
- Explosives handling equipment
- Metal Replacement / Weight Reduction

Manufacturing Capabilities:



Colors:

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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