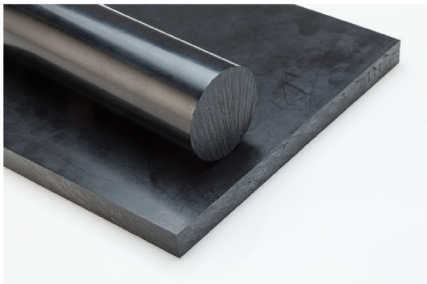




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# Absylux® CN-P

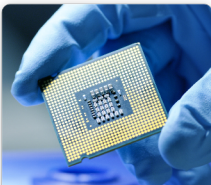


Absylux® ABS CN-P is a carbon powder-filled Acrylonitrile Butadiene Styrene offering surface resistivity in the 10EE4 to 10EE6 ohm/sq range and excellent dimensional stability. This material is a good choice when ESD protection is needed for highly sensitive electronic circuitry or to minimize static discharge in flammable environments.

INDUSTRY



Engineering



Semiconductor and ESD

COLORS AVAILABLE



Black

ATTRIBUTES

 Dimensional Stability	
 Dielectric Properties	
 Impact Resistance	

SHAPES

Compression Sheet	
Extruded Sheet	
Extruded Film	
Extruded Rod	



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# Absylux® CN-P

## TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
<b>Mechanical</b>			
Tensile Strength @ Yield	D638	4.5 kpsi	31 Mpa
Tensile Strength @ Break	D638	4.2 kpsi	29 Mpa
Tensile Elongation @ Yield	D638	2%	2%
Tensile Elongation @ Break	D638	6.4%	6.4%
Tensile Modulus	D638	346 kpsi	2386 Mpa
Flexural Strength	D790	8.6 kpsi	59.3 Mpa
Flexural Modulus	D790	359 kpsi	2475 Mpa
Izod Impact Resistance - Notched	D256	0.4 ft-lb/in	0.0018 kJ/m
Izod Impact Resistance - Unnotched	D4812	6.9 ft-lb/in	30.7 kJ/m
<b>Thermal</b>			
HDT @ 64 psi	D648	201°F	94°C
HDT @ 264 psi	D648	176°F	80°C
<b>Physical</b>			
Moisture Absorption	D570	0.22%	0.22%
Specific Gravity	D792	1.1	1.1
<b>Electrical</b>			
Surface Resistivity	D257	10 <sup>3</sup> - 10 <sup>6</sup> ohm/sq	10 <sup>3</sup> - 10 <sup>6</sup> ohm/sq

\*Data above is based on testing of injection molded test specimens



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# Absylux® CN-P

PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.5" (63.5mm)      2.75" (69.85mm)      3.0" (76.2mm)

Rods: 96"L (244cm)

0.5" (12.7mm)      0.625" (15.88mm)      0.75" (19.05mm)      1" (25.4mm)      1.25" (31.75mm)      1.375" (34.93mm)

1.5" (38.1mm)      1.625" (41.28mm)      1.75" (44.45mm)      1.875" (47.63mm)      2" (50.8mm)

Compression Sheets: 24"W x 48"L (61cm x 122cm)

0.25" (6.35mm)      0.375" (9.53mm)      0.5" (12.7mm)      0.75" (19.05mm)      1.0" (25.4mm)      1.25" (31.75mm)

1.5" (38.1mm)      1.75" (44.45mm)      2.0" (50.8mm)      2.25" (57.15mm)      2.5" (63.5mm)      2.75" (69.85mm)

3.0" (76.2mm)      3.25" (82.55mm)      3.5" (88.9mm)      3.75" (95.25mm)      4.0" (101.6mm)      4.25" (107.95mm)

4.5" (114.3mm)      4.75" (120.65mm)      5.0" (127mm)      5.25" (133.35mm)      5.5" (139.7mm)      5.75" (146.05mm)

6.0" (152.4mm)

Compression Sheets: 48"W x 96"L (122cm x 244cm)

0.25" (6.35mm)      0.5" (12.7mm)      0.75" (19.05mm)      1" (25.4mm)      1.25" (31.75mm)      1.5" (38.1mm)

1.75" (44.45mm)      2" (50.8mm)      2.25" (57.15mm)      2.50" (63.5mm)      2.75" (69.85mm)      3" (76.2mm)

3.25" (82.55mm)      3.50" (88.9mm)      3.75" (95.25mm)      4" (101.6mm)      4.25" (107.95mm)      4.50" (114.3mm)

4.75" (120.65mm)      5" (127mm)      5.25" (133.35mm)      5.50" (139.7mm)      5.75" (146.05mm)      6" (152.4mm)



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# Absylux® CN-P

Compression Sheets: 48"W x 120"L (122cm x 305cm)

0.25" (6.35mm)	0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	4.25" (107.95mm)
4.50" (114.3mm)	4.75" (120.65mm)	5" (127mm)	5.25" (133.35mm)	5.50" (139.7mm)	5.75" (146.05mm)
6" (152.4mm)					

Compression Sheets: 60"W x 120"L (152cm x 305cm)

0.25" (6.35mm)	0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	4.25" (107.95mm)
4.50" (114.3mm)	4.75" (120.65mm)	5" (127mm)	5.25" (133.35mm)	5.50" (139.7mm)	5.75" (146.05mm)
6" (152.4mm)					

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.03" (0.76mm)	0.035" (0.89mm)	0.06" (1.52mm)	0.062" (1.57mm)	0.08" (2.03mm)	0.09" (2.29mm)
0.095" (2.41mm)	0.125" (3.18mm)	0.1875" (4.76mm)	0.25" (6.35mm)		

Extruded Films: 26"W (66cm)

0.01" (0.25mm)	0.02" (0.51mm)
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LAST REVISED: 01/05/2024

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