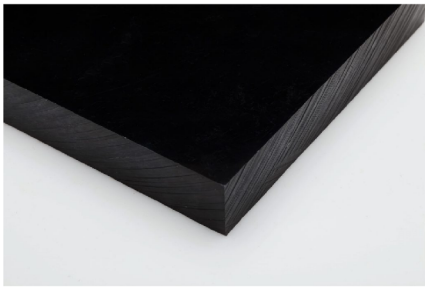




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Zelux® CN-P

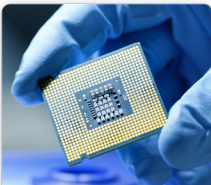


Zelux® CN-P is a conductive, carbon powder filled polycarbonate (PC). This product offers surface resistivity of 10ee5 - 10ee7 ohm/sq. Zelux® CN-P has low outgassing properties, high flexural strength, and good thermal stability to 250°F. Zelux® CN-P offers UL94 V-0 performance down to 0.030" and is thermoformable.

INDUSTRY



Engineering



Semiconductor and ESD

COLORS AVAILABLE



Black

ATTRIBUTES

 Dimensional Stability	✓
 Dielectric Properties	✓
 Flammability Resistance	✓

SHAPES

Compression Sheet	✓
Extruded Sheet	✓
Extruded Film	✓



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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength @ Yield	D638	9 kpsi	62 Mpa
Tensile Strength @ Break	D638	8.1 kpsi	56 Mpa
Tensile Elongation @ Yield	D638	4.9%	4.9%
Tensile Elongation @ Break	D638	9.5%	9.5%
Tensile Modulus	D638	389 kpsi	2680 Mpa
Flexural Strength	D790	14.8 kpsi	102 Mpa
Flexural Modulus	D790	419 kpsi	2890 Mpa
Izod Impact Resistance - Notched	D256	1.2 ft-lb/in	0.064 kJ/m
Izod Impact Resistance - Unnotched	D4812	23 ft-lb/in	1.2 kJ/m
Thermal			
HDT @ 64 psi	D648	280°F	138°C
HDT @ 264 psi	D648	261°F	127°C
Physical			
Moisture Absorption	D570	0.14%	0.14%
Specific Gravity	D792	1.24	1.24
Electrical			
Surface Resistivity	D257	10 ² - 10 ⁶ ohm/sq	10 ² - 10 ⁶ ohm/sq

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



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PRODUCT SHAPES & DIMENSIONS

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" (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)	3" (76.2mm)
3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)		

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)

0.005" (0.13mm)	0.01" (0.25mm)	0.02" (0.51mm)
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LAST REVISED: 01/05/2024

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