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Propylux™ SD-A

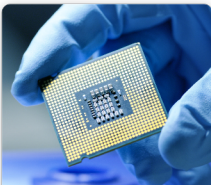


Propylux™ SD-A is a non-carbon-filled, permanently anti-static polypropylene (PP) offering surface resistivity in the 10EE9 to 10EE11 ohm/sq range. Propylux® SD-A is low out-gassing, non-sloughing, and has been used in clean room environments. The material is available in both natural and black color.

INDUSTRY



Engineering



Semiconductor and ESD

COLORS AVAILABLE



Black



Natural

ATTRIBUTES



ESD Performance



Chemical Resistance



Impact Resistance



SHAPES

Compression Sheet





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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength - Yield	ASTM D638	4,060 psi	28 Mpa
Tensile Elongation - Yield	ASTM D638	9.6 %	9.6 %
Tensile Elongation - Break	ASTM D638	47 %	47 %
Tensile Modulus	ASTM D638	202,000 psi	1,390 Mpa
Flexural Strength	ASTM D790	5,800 psi	40 Mpa
Flexural Modulus	ASTM D790	209,000 psi	1,440 Mpa
Izod Impact Resistance - Notched	ASTM D256	1.3 ft-lb/in	0.069 kJ/m
Izod Impact Resistance - Unnotched	ASTM D4812	no break ft-lb/in	no break kJ/m
Thermal			
HDT @ 64 psi	ASTM D648	212°F	100°C
HDT @ 264 psi	ASTM D648	133°F	56°C
Physical			
Moisture Absorption	ASTM D570	0.85 %	0.85 %
Specific Gravity	D792	0.952	0.952
Electrical			
Surface Resistivity	D257	10 ⁹ - 10 ¹¹	10 ⁹ - 10 ¹¹
Volume Resistivity	D257	32,918.40 ohm-ft	1,080.00 ohm-cm

*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)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

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

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)	

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)	

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)	

LAST REVISED: 01/05/2024

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