P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

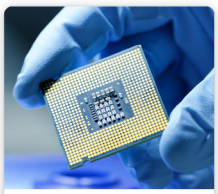
Propylux® DS

Propylux™ DS is compression molded polypropylene sheet. Made using a specialty homopolymer resin, its broad chemical resistance, low moisture absorption, hydrolysis resistance, and toughness make it a good choice for fabricated components that require a good balance of mechanical properties that see use in harsh chemical environments. Propylux™ DS is made using a unique manufacturing process that stress-relieves the material, improves the dimensional stability, and enables the material to be fabricated into complex shapes where tight tolerances and good dimensional stability are critical.

INDUSTRY

Chemical Process

Engineering



Semiconductor and ESD

COLORS AVAILABLE

Natural

ATTRIBUTES

- Chemical Resistance
- Dimensional Stability
- Impact Resistance
- Low Moisture Absorption

SHAPES

- Compression Sheet

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TYPICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	259 kpsi	1786 MPa
Flexural Strength - 5%	D790	7400 psi	51 MPa
Izod Impact Resistance - Notched	D256	1.60 ft-lb./in	85.0 J/m
Tensile Elongation @ Break	D638	19%	19%
Tensile Elongation @ Yield	D638	7%	7%
Tensile Strength @ Break	D638	4400 psi	31 MPa
Tensile Strength @ Yield	D638	5100 psi	35 MPa
Thermal			
HDT @ 66 psi	D648	302 °F	150 °C
HDT @ 264 psi	D648	160 °F	71 °C
Melting Point	D3418	320 °F	160 °C
Coefficient of Thermal Exp - x	E831	95.5 x 10-6 in/in/°F	171.9 x 10-6 ppm/°C
Coefficient of Thermal Exp - y	E831	106.3 x 10-6 in/in/°F	191.4 x 10-6 ppm/°C
Coefficient of Thermal Exp - z	E831	93.4 x 10-6 in/in/°F	168.1 x 10-6 ppm/°C
Physical			
Specific Gravity	D792		

*Data above is based on testing of machined test specimens made from compression molded sheet

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PRODUCT SHAPES & DIMENSIONS

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

0.5" (12.7mm)	1" (25.4mm)	1.5" (38.1mm)	2" (50.8mm)	2.5" (63.5mm)	3" (76.2mm)
3.5" (88.9mm)	4" (101.6mm)				

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

0.5" (12.7mm)	1" (25.4mm)	1.5" (38.1mm)	2" (50.8mm)	2.5" (63.5mm)	3" (76.2mm)
3.5" (88.9mm)	4" (101.6mm)				

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

0" (0mm)	1" (25.4mm)	1.5" (38.1mm)	2" (50.8mm)	2.5" (63.5mm)	3" (76.2mm)
3.5" (88.9mm)	4" (101.6mm)				

LAST REVISED: 08/18/2025

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