



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.

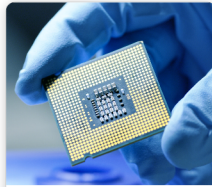
INDUSTRY



Chemical Process



Engineering



Semiconductor and ESD

COLORS AVAILABLE



Natural

ATTRIBUTES

 Impact Resistance

 Dimensional Stability

 Chemical Resistance

 Low Moisture Absorption

SHAPES

Compression Sheet



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

Propylux™ DS

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



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

Propylux™ DS

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: 10/18/2024

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to infringe any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential loss) shall be available to the buyer.

EXCLUSION OF WARRANTIES: THERE ARE NO WARRANTIES AS TO THE MATERIAL DESCRIBED HEREIN, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY VALUES STATED IN SELLER'S LITERATURE ARE TYPICAL PROPERTIES ONLY.