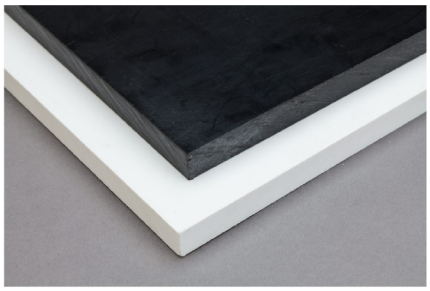
P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Propylux® HS2



Propylux™ HS2 is heat-stabilized compression molded polypropylene sheet made from FDA, USP VI compliant polypropylene resin. Its broad chemical resistance, low moisture absorption, hydrolysis resistance, and toughness make it ideal for medical and life science applications. Propylux™ HS2 is put through a unique heat stabilization process that stress-relieves the material, improves the dimensional stability, and enables the material to be repeatedly steam sterilized without loss of mechanical properties, aesthetics or dimensional stability. Suitable sterilization methods include steam autoclaving, EtO gas, and cold sterilization. Propylux™ HS2 is fully lot traceable.

INDUSTRY

Life Sciences

COLORS AVAILABLE

Black Natural White

ATTRIBUTES

- Biocompatibility
- Dimensional Stability
- Chemical Resistance
- Steam Sterilizable

SHAPES

- Compression Sheet

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	259 kpsi	1,786.00 MPa
Flexural Strength - 5%	D790	7.4 kpsi	51.00 MPa
Izod Impact Resistance - Notched	D256	1.60 ft-lb/in	85.00 J/m
Izod Impact Resistance - Unnotched	D256	22.00 ft-lb/in	1,174J/m
Specific Gravity	D792	0.90	0.90
Tensile Elongation @ Break	D638	19.00 %	19.00 %
Tensile Elongation @ Yield	D638	7.00 %	7.00 %
Tensile Strength @ Break	D638	4.4 kpsi	31 MPa
Tensile Strength @ Yield	D638	5.1 kpsi	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
Physical			
Specific Gravity	D792	0.90	0.90

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

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PRODUCT SHAPES & DIMENSIONS

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

1.75" (44.45mm)	2.0" (50.8mm)	2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)	3.0" (76.2mm)

Compression Sheets: 48"W x 40"L (122cm x 102cm)

0.5" (12.7mm)	0.75" (19.05mm)	1.0" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)

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

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)	

LAST REVISED: 08/18/2025

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