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

Propylux® HS®

Propylux® HS (Heat Stabilized polypropylene) extruded shapes are 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. It 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® HS is fully lot traceable.

INDUSTRY

Life Sciences

COLORS AVAILABLE

Aqua, Black, Brown, Dark Blue, Dark Green, Grey, Light Blue, Magenta, Natural, Neon Green, Orange, Purple, Red, Rust, White, Yellow

ATTRIBUTES

- Chemical Resistance
- Steam Sterilizable
- Biocompatibility
- Dimensional Stability

SHAPES

- Extruded Slab
- Extruded Rod

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	313 kpsi	2,158.00 MPa
Flexural Strength - 5%	D790	9.2 kpsi	64.00 MPa
Izod Impact Resistance - Notched	D256	0.90 ft-lb/in	48.00 J/m
Tensile Elongation @ Break	D638	20-60%	20-60%
Tensile Elongation @ Yield	D638	4.60 %	4.60 %
Tensile Strength @ Break	D638	3.9 kpsi	27.00 MPa
Tensile Strength @ Yield	D638	5 kpsi	35.00 MPa
Thermal			
HDT @ 66 psi	D648	302 °F	150 °C
HDT @ 264 psi	D648	160 °F	71 °C
Physical			
Specific Gravity	D792	0.90	0.90

*Data above is based on testing of machined test specimens made from extruded bar stock

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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.25" (57.15mm) 2.50" (63.5mm) 2.75" (69.85mm) 3" (76.2mm) 3.25" (82.55mm) 3.50" (88.9mm)

Rods: 96"L (244cm)

0.5" (12.7mm) 1" (25.4mm) 1.25" (31.75mm) 1.50" (38.1mm) 1.75" (44.45mm) 2" (50.8mm)

Extruded Slabs: 24"W (61cm)

0.75" (19.05mm) 1" (25.4mm) 1.25" (31.75mm) 1.50" (38.1mm) 1.75" (44.45mm) 2" (50.8mm)

2.50" (63.5mm)

LAST REVISED: 08/03/2026

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