

# Propylux<sup>®</sup> HS

(polypropylene-heat stabilized)

Medical grade Propylux HS is made from an FDA approved polypropylene resin. Through a unique heat-stabilizing process, the extruded material is able to withstand higher temperatures with less water absorption than standard polypropylene. Recommended sterilization techniques for Propylux HS include steam autoclaving and cold sterilization.

The following physical property information is based on actual tests performed on extruded sheet.

	Units	ASTM Test	Result
<b>Mechanical</b>			
Compressive Strength @yield	psi	D695	8,000
Flexural Modulus	psi	D790	313,000
Flexural Strength	psi	D790	9,270
Hardness-Rockwell R		D785	R101
Izod Impact Strength			
Notched	ft•lbs/in	D256	1.5
Un-Notched	ft•lbs/in	D256	21.0
Tensile Elongation			
@break	%	D638	40.0
@yield	%	D638	10.0
Tensile Modulus	psi	D638	319,000
Tensile Strength			
@break	psi	D638	4,360
@yield	psi	D638	5,310
<b>Thermal</b>			
Coefficient of Thermal Expansion	in/in/°F	D696	4.6 x 10 <sup>-5</sup>
Heat Deflection Temperature			
@66 psi	°F	D648	305
@264 psi	°F	D648	176
Flammability Rating-UL94	—	—	HB
<b>Other</b>			
Specific Gravity	—	D792	.92
Water Absorption @24hours	%	D570	0.025

## Westlake Product Bulletin



### Applications Include:

- Provisional trials
- Cranio-maxillofacial trays
- Sterilization tray components

### Advantages of Medical Grade Propylux HS:

- Excellent chemical resistance
- Laser markable
- Lot controlled and traceable
- Low moisture absorption
- FDA resin
- Superior dimensional stability

### Manufacturing Capabilities:

#### Standard:

**Sheet:** 1/2" to 2 1/2" thick  
(1/2" increments)

**Sheet Sizes:** 40 1/2"x48" (1/2" to 1 1/2" thick)  
24"x48" (2" to 2 1/2" thick)

#### Non-Standard:

**Rod:** 3/8" to 4" diameter

### Colors/Grades:

Standard: white (custom colors available).

\*In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

# WESTLAKE

## PLASTICS COMPANY

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. This material is not approved for implant.

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.

Propylux<sup>®</sup> is a registered trademark of Westlake Plastics Co.