

Propylux[®] 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
Mechanical			
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
Thermal			
Coefficient of Thermal Expansion	in/in/°F	D696	4.6 x 10 ⁻⁵
Heat Deflection Temperature			
@66 psi	°F	D648	305
@264 psi	°F	D648	176
Flammability Rating-UL94	—	—	HB
Other			
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.

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