

Propylux[®] HS2

(polypropylene-heat stabilized)

Through process improvement and advanced engineering, Westlake Plastics introduces the next generation of heat-stabilized polypropylene. Propylux HS2 is produced from a FDA and USP Class VI approved homopolymer resin, and exhibits better heat and dimensional stability over Propylux HS. Recommended sterilization techniques for Propylux HS2 include steam autoclaving and cold sterilization.

The following physical property information is based on actual tests performed on this product.

	Units	ASTM Test	Result
Mechanical			
Compressive Strength @yield	psi	D695	6,880
Flexural Modulus	psi	D790	329,000
Flexural Strength	psi	D790	9,370
Hardness-Rockwell R		D785	R100
Izod Impact Strength			
Notched	ft•lbs/in	D256	3.0
Un-Notched	ft•lbs/in	D256	no break
Tensile Elongation			
@break	%	D638	70.0
@yield	%	D638	5.0
Tensile Modulus	psi	D638	319,000
Tensile Strength			
@break	psi	D638	4,230
@yield	psi	D638	4,970
Thermal			
Coefficient of Thermal Expansion	in/in/°F	D696	4.37 x 10 ⁻⁵
Heat Deflection Temperature			
@66 psi	°F	D648	309
@264 psi	°F	D648	201
Flammability Rating-UL94	—	—	HB
Other			
Specific Gravity	—	D792	.92
Water Absorption @24hours	%	D570	0.01

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" to 2 1/2" thick
(1/2" increments)

Sheet Sizes:
40 1/2" x 48" (1" to 1 1/2" thick)
24" x 48" (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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