

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 | — | — | H B |
| Other | | | |
| Specific Gravity | — | D792 | .92 |
| Water Absorption @24hours | % | D570 | 0.01 |

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"x48" (1" to 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.