



## PROPYLUX<sup>®</sup> HS2 POLYPROPYLENE-HEAT STABILIZED

Medical grade Propylux HS2 is made from an FDA, USP VI compliant polypropylene base resin. Through a unique heat-stabilizing process, the compression molded material is able to withstand higher temperatures with less water absorption than standard polypropylene. Recommended sterilization techniques for Propylux HS2 include steam autoclaving and cold sterilization.

The following physical property information is based on tests performed on compression molded sheet.

### Applications Include:

- Cranio-maxillofacial trays
- Sterilization tray components

### Advantages of Propylux HS2:

- Excellent chemical resistance
- Laser markable
- Lot controlled and traceable
- Low moisture absorption
- Superior dimensional stability
- Resin, Colorants (black, white) and Additives are FDA compliant and BSE/TSE free
- Shaped black and white product ISO 10993-5 compliant
- Base PP resin and shaped white product USP VI compliant

### Manufacturing Capabilities:

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

### Colors/Grades:

- White WHV200
- Black BKV200

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

Property	Units	Test Standard	Result
<b>Mechanical</b>			
Compressive Strength @yield	psi	ASTM D695	7,200
Flexural Modulus	psi	ASTM D790	2.59x10 <sup>5</sup>
Flexural Strength	psi	ASTM D790	7,430
Tensile Modulus	psi	ASTM D638	2.61x10 <sup>5</sup>
Tensile Strength			
@yield	psi	ASTM D638	5,130
@break	psi	ASTM D638	4,470
Tensile Elongation			
@yield	%	ASTM D638	7
@break	%	ASTM D638	19
Izod Impact Strength			
Notched	ft-lbs/in	ASTM D256	1.6
Un-Notched	ft-lbs/in	ASTM D256	22
Hardness	R Scale	ASTM D785	R94
<b>Thermal</b>			
Flammability	—	UL94	HB
Coefficient of Thermal Expansion	in/in/°C	ASTM D696	9.2x10 <sup>-5</sup>
Heat Deflection Temperature			
@66 psi	°F	ASTM D648	293
@264 psi	°F	ASTM D648	181
<b>Other</b>			
Specific Gravity*	—	ASTM D792	0.90
Water Absorption	%	ASTM D570	0.005

\*As reported by FHR