



Propylux HS (Medical Grade)

Heat stabilized, FDA compliant, Polypropylene

Mechanical Properties			
Property	Units	Test	Result
Compressive Strength @yield	psi	ASTM D695	8,000
Flexural Modulus	psi	ASTM D790	313,000
Flexural Strength	psi	ASTM D790	9,270
Hardness-Rockwell R	-	ASTM D785	R101
Izod Impact Strength Notched	ft-lbs/in	ASTM D256	1.5
Izod Impact Strength Un_notched	ft-lbs/in	ASTM D256	21.0
Tensile Elongation @break	%	ASTM D638	40.0
Tensile Elongation @yield	%	ASTM D638	10.0
Tensile Modulus	psi	ASTM D638	319,000
Tensile Strength @break	psi	ASTM D638	4,360
Tensile Strength @yield	psi	ASTM D638	5,310

Other Properties			
Property	Units	Test	Result
Specific Gravity	-	ASTM D792	.92
Water Absorption @24 hours	%	ASTM D570	0.025

Thermal Properties			
Property	Units	Test	Result
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	4.6 x 10 ⁻⁵
Heat Deflection Temp. @66 psi	°F	ASTM D648	305
Heat Deflection Temp. @264 psi	°F	ASTM D648	176
Flammability Rating-UL94	-	-	HB

Advantages of Propylux® HS:

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

Color/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.

Manufacturing Capabilities:

- Standard:
 - Sheet: 1/2" to 21/2" thick (1/2" increments)
 - Sheet Sizes: 40 1/2"x48" (1/2" to 11/2" thick)
 - 24"x48" (2" to 21/2" thick)
- Non-Standard:
 - Rod: 3/8" to 4" diameter