

Propylux®

(polypropylene)

Propylux is made from polypropylene resin. Among its most notable characteristics are its mechanical toughness, chemical resistance, and resistance to abrasion. These properties make it suitable for various applications. Propylux Natural, and Void Free are FDA compliant.

The following physical property information is based on typical values of the base polypropylene resins

	Units	ASTM Test	Propylux	Propylux Void-Free
Mechanical				
Compressive Strength		D695	6,000	—
Flexural Modulus	psi	D790	120,000	130,000
Flexural Strength	psi	D790	7,000	—
Hardness-Rockwell		D785	R95	—
Heat Deflection Temperature				
@66 psi	°F	D648	210	195
@264 psi	°F	D648	130	96
Izod Impact Strength-Notched	ft•lbs/in	D256	0.7	1.2
Tensile Elongation @break	%	D638	600	—
Tensile Modulus	psi	D638	240,000	170,000
Tensile Strength @yield	psi	D638	5,200	4,200
Thermal				
Coefficient of Thermal Expansion	in/in/°F	D696	8.1 x 10 ⁻⁵	—
Flammability Rating-UL94	—	—	HB	HB
Continuous Use Temperature	°F	—	180	180
Melt Temperature	°F	D4591	330	297
Thermal Conductivity	(BTU•in)/(hr•ft ² •°F)	—	2.8	—
Electrical				
Dielectric Constant @1kHz	—	D150	2.3	—
Dielectric Strength	V/mil	D149	600	—
Other				
Specific Gravity	—	D792	0.91	0.90
Water Absorption @24 hours	%	D570	<0.10	<0.10

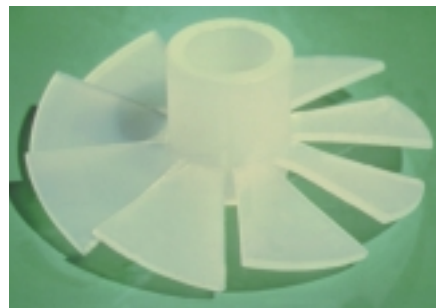
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Westlake Product Bulletin



Applications Include:

- Tanks/tank covers
- Welding cabinetry
- Etching rinse tubs
- Glove boxes
- Cutting board
- Fan shrouds and blades

Advantages of Propylux:

- Excellent chemical resistance
- Superior dimensional stability
- Low moisture absorption
- Low density
- Formable and weldable
- FDA, USDA

Manufacturing Capabilities:

Propylux:

Sheet (Comp. Molded): 1/4" to 6" thick
Sheet Sizes: 24"x48", 30"x60", 49"x97",
49"x121", 61"x121", 72"x144"

Rod: 3/8" to 4" diameter

Sheet (Fabric Backed): .090" to 3/16" thick

Film: .005" to .029" thick

Colors/Grades:

Natural Translucent White, White, Black
(custom colors available)

Propylux Void Free:

Sheet (Comp. Molded): 1/4" to 6" thick

Colors/Grades:

Natural Translucent White (custom colors available)

Propylux Glass Filled:

Sheet (Comp. Molded): 1/4" to 4" thick

Color:

Natural and Black

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

West Coast Office

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