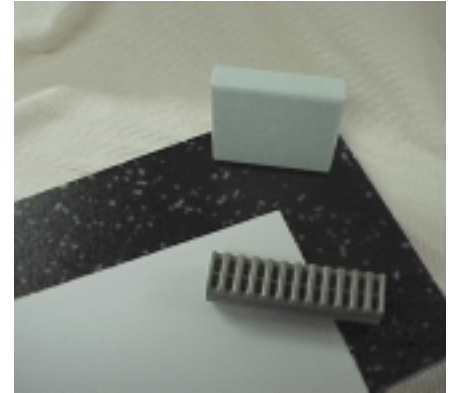


# Ultra Ethylux<sup>®</sup>

(high density polyethylene)

Ultra Ethylux is made from high density polyethylene resin. This material is a cost effective alternative for a variety of end uses including mild chemical and wear applications.

The following physical property information is based on typical values of the base high density polyethylene resin.



	Units	ASTM Test	Result
<b>Mechanical</b>			
Flexural Modulus	psi	D790	170,000
Hardness–Shore D	—	D2240	D63-D65
Izod Impact Strength–Notched	ft•lbs/in	D256	3.2-4.5
Tensile Elongation @break	%	D638	>700
Tensile Modulus	psi	D638	136,000
Tensile Strength @yield	psi	D638	4,000
<b>Thermal</b>			
Coefficient of Thermal Expansion	in/in/°F	D696	7-11x10 <sup>-5</sup>
Continuous Use Temperature	°F	—	210
Flammability Rating–UL94	—	—	HB
Heat Deflection Temperature @66psi	°F	D648	168
Low Temperature Brittleness	°F	D746	<-112
Melt Temperature	°F	D4591	260
<b>Other</b>			
Specific Gravity	—	D792	0.95
Water Absorption @24 hours	%	D570	0.03
Environmental Stress Crack	F <sub>50</sub> hrs.	D1693	120

#### Applications Include:

- Food processing equipment
- Cutting boards
- CPI, fluid handling
- Wear applications

#### Advantages of Ultra Ethylux:

- Good corrosion resistance
- High stress crack resistance
- Low moisture absorption
- Good tensile strength and stiffness
- Virgin HDPE – FDA compliant

#### Manufacturing Capabilities:

**Rod:** 1/2" to 15" diameter

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

**Sheet (Fabric Backed):** .030" to 3/16" thick

#### Color:

Natural Translucent

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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