



ETHYLUX[®] LOW DENSITY POLYETHYLENE

Ethylux is made from low density polyethylene resin. This material is a cost effective option 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 low density polyethylene resin.

Applications Include:

- Low load tank linings
- Vacuum formed end caps and tops
- Orthopaedic appliances
- Electrical insulators
- Beverage, drug and chemical containers
- Bags and liners

Advantages of Ethylux:

- Good corrosion resistance
- Easily fabricated vacuum formed and welded
- Low moisture permeability
- Good impact strength and toughness
- FDA compliant

Manufacturing Capabilities:

- **Sheet** (compression molded):
1/4" to 6" thick

Colors/Grades:

- Natural

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
Mechanical			
Tensile Elongation @break	%	ASTM D638	650
Tensile Strength @break	psi	ASTM D638	1,800
Hardness	D Scale	ASTM D2240	D42
Thermal			
Flammability Rating	—	UL94	HB
Heat Deflection Temperature @66 psi	°F	ASTM D648	120
Low Temperature Brittleness	°F	ASTM D746	-103
Vicat Softening Temperature	°F	ASTM D1525	185
Electrical			
Dielectric Constant @60Hz	—	ASTM D1502	2.63
Dissipation Factor @60Hz	—	ASTM D150	0.006
Dielectric Strength @.125"	V/mil	ASTM D149	488
Other			
Specific Gravity	—	ASTM D792	0.919
Water Absorption @24 hours	%	ASTM D570	0.04