Westlake plastics
LIFE IN POLYMERS

MODERN plastics
"Setting the Standards in Plastics Distribution"™
ISO 9001:2008 and ISO 13485:2003 Certified

88 Long Hill Cross Road, Shelton, Connecticut, 06484 USA
ModernPlastics.com - National Toll-Free: 800.243.9696
Phone: 203.333.3128 - Fax: 203.333.4625
sales@modernplastics.com

PRODUCT BULLETIN

ULTRA ETHYLUX® 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 chemical processing and wear applications.

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

Applications Include:
- Food processing equipment
- Cutting boards
- Fluid handling components
- Wear applications

Advantages of Ultra Ethylux:
- Good corrosion resistance
- High stress crack resistance
- Low moisture absorption
- Good impact/toughness
- FDA compliant

Manufacturing Capabilities:
- **Sheet** (compression molded)**:** $^1/_4$" to 6" thick

Colors/Grades:
- Natural Translucent

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			
Flexural Modulus	psi	ASTM D790	225,000
Hardness	D Scale	ASTM D2240	D69
Tensile Impact	ft•lbs/in	ASTM D1822	120
Tensile Elongation @break	%	ASTM D638	>400
Tensile Modulus	psi	ASTM D638	136,000
Tensile Strength @yield	psi	ASTM D638	4,600
Thermal			
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	$7.1x10^{-5}$
Continuous Use Temperature	°F	—	210
Flammability Rating	—	UL94	HB
Heat Deflection Temperature @66 psi	°F	ASTM D648	180
Low Temperature Brittleness	°F	ASTM D746	-105
Vicat Softening Temperature	°F	ASTM D1525	264
Other			
Density	—	ASTM D1505	0.96
Water Absorption @24 hours	%	ASTM D570	0.03
Environmental Stress Crack	F_{50} hrs.	ASTM D1693	120

6/13