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

ABSYLUX® ACRYLONITRILE-BUTADIENE-STYRENE

Absylux ABS is a low cost engineering plastic that is easy to machine and fabricate. Absylux is an ideal material for structural applications when impact resistance, strength, and stiffness are required. It is widely used for machining pre-production prototypes since it has excellent dimensional stability and is easy to paint and glue. Natural (beige) and black Absylux are FDA compliant for use in food processing applications.

The following physical property information is based on typical values of the base acrylonitrile-butadiene-styrene resin.

Applications Include:
- Machined prototypes
- Structural components
- Support blocks
- Housings
- Covers

Advantages of Absylux:
- Excellent impact resistance
- Good machinability
- Excellent aesthetic qualities
- Easy to paint and glue
- Good strength and stiffness
- Low cost

Manufacturing Capabilities:
- **Rod:** 1/4" to 8" dia.
- **Sheet:** 1/16" to 1/4" thick
- **Slab:** 3/8" to 6" thick
- **Film:** .001" to .029" thick

Colors/Grades:
- Natural (white) **FDA/FR**
- Black **FDA/FR**

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	Unfilled	Flame Retardant (FR)
Mechanical				
Flexural Modulus	psi	ASTM D790	314,000	300,000
Flexural Strength @yield	psi	ASTM D790	9,700	8,800
Hardness	R Scale	ASTM D785	R105	R100
Izod Impact Strength				
Notched @-22°F	ft•lbs/in	ASTM D256	11	—
Notched @73°F	ft•lbs/in	ASTM D256	16	4.0
Tensile Modulus	psi	ASTM D638	302,000	320,000
Tensile Strength @yield	psi	ASTM D638	5,800	5,530
Thermal				
Flammability Rating—				
@.0625"	—	UL94	HB (.060")	V-0
@.098"	—	UL94	—	5V-A
Heat Deflection Temperature				
@66 psi	°F	ASTM D648	200	—
@264 psi	°F	ASTM D648	177	163
Other				
Specific Gravity	—	ASTM D792	1.03	1.19

6/13