

# 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.



Absylux prototype

	Units	ASTM Test	Unfilled	FR
<b>Mechanical</b>				
Compressive Strength	psi	D695	—	7,650
Flexural Modulus	psi	D790	340,000	330,000
Flexural Strength @yield	psi	D790	10,500	9,500
Hardness–Rockwell	—	D785	R105	R97
Izod Impact Strength				
Notched @-40°F	ft•lbs/in	D256	2.7	1.0
Notched @73°F	ft•lbs/in	D256	7.7	4.0
Tensile Modulus	psi	D638	310,000	320,000
Tensile Strength @yield	psi	D638	6,100	5,500
<b>Thermal</b>				
Flammability Rating–UL94				
@.125"	—	—	—	—
@.058"	—	—	HB	V-0
@.108"	—	—	—	5V-A
Heat Deflection Temperature				
@66 psi	°F	D648	214	190
@264 psi	°F	D648	203	162
<b>Electrical</b>				
Dielectric Strength	V/mil	D149	—	400
<b>Other</b>				
Specific Gravity	—	D792	1.04	1.21

**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" diameter
- Sheet:** 1/16" to 6" thick
- Film:** .001" to .029" thick

**Colors/Grades:**

- Absylux – FDA compliant grade (natural and black)
- Absylux II – Machine grade, non-FDA (natural and black)
- FR Absylux – Flame retardant grade (natural and black)
- 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.



**World Headquarters**  
P.O. Box 127, Lenni, PA 19052  
1-800-999-1700 • Fax: (610) 459-1084

www.westlakeplastics.com

**West Coast Office**  
377 E. Chapman Ave., Suite 120, Placentia, CA 92870  
1-800-440-0597 • Fax: (714) 961-0978

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to infringe

any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential loss) shall be available to the buyer.

**EXCLUSION OF WARRANTIES:** THERE ARE NO WARRANTIES AS TO THE MATERIAL DESCRIBED HEREIN, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY VALUES STATED IN SELLER'S LITERATURE ARE TYPICAL PROPERTIES ONLY.

Absylux® is a Registered Trademark of Westlake Plastics Co.