

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.

	Units	ASTM Test	Unfilled	FR
Mechanical				
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
Thermal				
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
Electrical				
Dielectric Strength	V/mil	D149	—	400
Other				
Specific Gravity	—	D792	1.04	1.21

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Westlake Product Bulletin



Absylux prototype

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.

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