



## **Absylux ABS**

**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
<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