

# ABS ABSYLUX®

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Absylux (Acrylonitrile Butadiene Styrene/ABS) is a very good and economical all-purpose product exhibiting excellent dimensional stability, especially as compression molded (a proprietary WPC Process). ABS is an excellent option in applications such as pump housings and many others where high temperature resistance is not required..



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

| Property                    | Units     | Test Standard | Unfilled   | Flame Retardant (FR) |
|-----------------------------|-----------|---------------|------------|----------------------|
| <b>Mechanical</b>           |           |               |            |                      |
| 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                |
| <b>Thermal</b>              |           |               |            |                      |
| 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                  |
| <b>Other</b>                |           |               |            |                      |
| Specific Gravity            | —         | ASTM D792     | 1.03       | 1.19                 |

## Applications Include:

- Machined prototypes
- Structural components
- Support blocks
- Housings
- Covers

## Manufacturing Capabilities:



## Colors:

- Black
- Natural

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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