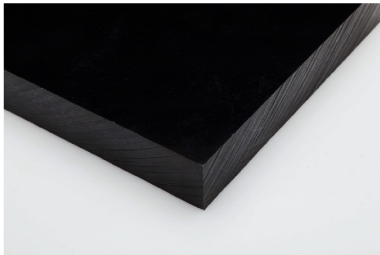




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# Absylux® FR



Absylux® ABS FR is Flame Retardant Acrylonitrile Butadiene Styrene. The material exhibits UL94 V0 flame retardancy performance in thicknesses down to 0.0625”T and excellent dimensional stability, especially as compression molded sheet.

## INDUSTRY



Engineering

## COLORS AVAILABLE



## ATTRIBUTES

|                                                                                                           |   |
|-----------------------------------------------------------------------------------------------------------|---|
|  Flame Retardant       | ✓ |
|  Dielectric Properties | ✓ |
|  Dimensional Stability | ✓ |
|  Impact Resistance     | ✓ |

## SHAPES

|                   |   |
|-------------------|---|
| Compression Sheet | ✓ |
| Extruded Sheet    | ✓ |
| Extruded Film     | ✓ |
| Extruded Rod      | ✓ |



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## TECHNICAL SPECIFICATIONS

| PROPERTY                   | TEST STANDARD | ENGLISH UNITS | METRIC UNITS |
|----------------------------|---------------|---------------|--------------|
| <b>Mechanical</b>          |               |               |              |
| Flexural Modulus           | D790          | 339 kpsi      | 2,340 MPa    |
| Flexural Strength - Yield  | D790          | 9.7 kpsi      | 67 MPa       |
| Izod Impact, notched       | D256          | 3.99 ft-lb/in | 213 J/m      |
| Tensile Elongation @ Break | D638          | 17 %          | 17 %         |
| Tensile Elongation @ Yield | D638          | 2.4 %         | 2.4 %        |
| Tensile Modulus            | D638          | 298 kpsi      | 2,060 MPa    |
| Tensile Strength @ Break   | D638          | 4.4 kpsi      | 30 MPa       |
| Tensile Strength @ Yield   | D638          | 5.4 kpsi      | 37 MPa       |
| <b>Thermal</b>             |               |               |              |
| HDT @ 264 psi              | D648          | 167 °F        | 75 °C        |
| HDT @ 64 psi               | D648          | 186 °F        | 86 °C        |
| <b>Physical</b>            |               |               |              |
| Specific Gravity           | D792          | 1.19          | 1.19         |

## SIZING



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# Absylux® FR

## Rod Sizing

### 48" Length

|                  |                  |                  |                  |                  |                 |
|------------------|------------------|------------------|------------------|------------------|-----------------|
| 0.5" (12.7mm)    | 0.625" (15.88mm) | 0.75" (19.05mm)  | 0.875" (22.23mm) | 1" (25.4mm)      | 1.25" (31.75mm) |
| 1.375" (34.93mm) | 1.5" (38.1mm)    | 1.625" (41.28mm) | 1.75" (44.45mm)  | 1.875" (47.63mm) | 2" (50.8mm)     |
| 2.5" (63.5mm)    | 2.75" (69.85mm)  |                  |                  |                  |                 |

### 96" Length

|                 |                  |                 |                  |                 |                  |
|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 0.5" (12.7mm)   | 0.625" (15.88mm) | 0.75" (19.05mm) | 1" (25.4mm)      | 1.25" (31.75mm) | 1.375" (34.93mm) |
| 1.5" (38.1mm)   | 1.625" (41.28mm) | 1.75" (44.45mm) | 1.875" (47.63mm) | 2" (50.8mm)     | 2.5" (63.5mm)    |
| 2.75" (69.85mm) |                  |                 |                  |                 |                  |



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# Absylux® FR

## Compression Sheet Sizing

### 48" Length by 24" Width

|                |                 |
|----------------|-----------------|
| 0.25" (6.35mm) | 0.375" (9.53mm) |
|----------------|-----------------|

### 96" Length by 48" Width

|                  |                |                  |                 |                  |                 |
|------------------|----------------|------------------|-----------------|------------------|-----------------|
| 0.25" (6.35mm)   | 0.5" (12.7mm)  | 0.75" (19.05mm)  | 1" (25.4mm)     | 1.25" (31.75mm)  | 1.50" (38.1mm)  |
| 1.75" (44.45mm)  | 2" (50.8mm)    | 2.25" (57.15mm)  | 2.50" (63.5mm)  | 2.75" (69.85mm)  | 3" (76.2mm)     |
| 3.25" (82.55mm)  | 3.50" (88.9mm) | 3.75" (95.25mm)  | 4" (101.6mm)    | 4.25" (107.95mm) | 4.50" (114.3mm) |
| 4.75" (120.65mm) | 5" (127mm)     | 5.25" (133.35mm) | 5.50" (139.7mm) | 5.75" (146.05mm) | 6" (152.4mm)    |

### 120" Length by 48" Width

|                 |                  |                |                  |                 |                  |
|-----------------|------------------|----------------|------------------|-----------------|------------------|
| 0.25" (6.35mm)  | 0.375" (9.53mm)  | 0.5" (12.7mm)  | 0.75" (19.05mm)  | 1" (25.4mm)     | 1.25" (31.75mm)  |
| 1.50" (38.1mm)  | 1.75" (44.45mm)  | 2" (50.8mm)    | 2.25" (57.15mm)  | 2.50" (63.5mm)  | 2.75" (69.85mm)  |
| 3" (76.2mm)     | 3.25" (82.55mm)  | 3.50" (88.9mm) | 3.75" (95.25mm)  | 4" (101.6mm)    | 4.25" (107.95mm) |
| 4.50" (114.3mm) | 4.75" (120.65mm) | 5" (127mm)     | 5.25" (133.35mm) | 5.50" (139.7mm) | 5.75" (146.05mm) |
| 6" (152.4mm)    |                  |                |                  |                 |                  |

### 120" Length by 60" Width

|                 |                  |                |                  |                 |                  |
|-----------------|------------------|----------------|------------------|-----------------|------------------|
| 0.25" (6.35mm)  | 0.375" (9.53mm)  | 0.5" (12.7mm)  | 0.75" (19.05mm)  | 1" (25.4mm)     | 1.25" (31.75mm)  |
| 1.50" (38.1mm)  | 1.75" (44.45mm)  | 2" (50.8mm)    | 2.25" (57.15mm)  | 2.50" (63.5mm)  | 2.75" (69.85mm)  |
| 3" (76.2mm)     | 3.25" (82.55mm)  | 3.50" (88.9mm) | 3.75" (95.25mm)  | 4" (101.6mm)    | 4.25" (107.95mm) |
| 4.50" (114.3mm) | 4.75" (120.65mm) | 5" (127mm)     | 5.25" (133.35mm) | 5.50" (139.7mm) | 5.75" (146.05mm) |
| 6" (152.4mm)    |                  |                |                  |                 |                  |

## Extruded Sheet Sizing

### 96" Length by 48" Width

|                 |                 |                  |                 |                |                |
|-----------------|-----------------|------------------|-----------------|----------------|----------------|
| 0.03" (0.76mm)  | 0.035" (0.89mm) | 0.06" (1.52mm)   | 0.062" (1.57mm) | 0.08" (2.03mm) | 0.09" (2.29mm) |
| 0.095" (2.41mm) | 0.125" (3.18mm) | 0.1875" (4.76mm) | 0.25" (6.35mm)  |                |                |



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# Absylux® FR

## Film Sizing

### 26" Width

0.01" (0.25mm)

0.02" (0.51mm)

LAST REVISED: 06/06/2022

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