Westlake plastics
LIFE IN POLYMERS

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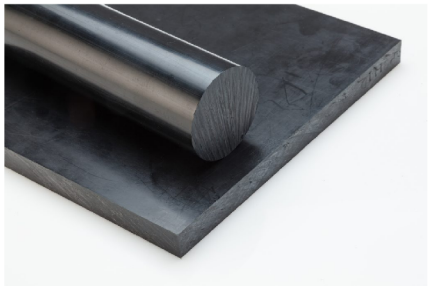
Absylux® FR



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

Black

ATTRIBUTES

- Dimensional Stability
- Impact Resistance
- Flammability Resistance
- Dielectric Properties

SHAPES

- Compression Sheet
- Extruded Sheet
- Extruded Film
- Extruded Rod

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	339 kpsi	2,340 MPa
Flexural Strength - Yield	D790	9.7 kpsi	67 MPa
Izod Impact Resistance - 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
Thermal			
HDT @ 264 psi	D648	167 °F	75 °C
HDT @ 64 psi	D648	186 °F	86 °C
Physical			
Specific Gravity	D792	1.19	1.19

*Data above is based on testing of injection molded test specimens

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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.5" (63.5mm)	2.75" (69.85mm)

Rods: 96"L (244cm)

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)	

Compression Sheets: 24"W x 48"L (61cm x 122cm)

0.25" (6.35mm)	0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1.0" (25.4mm)	1.25" (31.75mm)
1.5" (38.1mm)	1.75" (44.45mm)	2.0" (50.8mm)	2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)
3.0" (76.2mm)	3.25" (82.55mm)	3.5" (88.9mm)	3.75" (95.25mm)	4.0" (101.6mm)	4.25" (107.95mm)
4.5" (114.3mm)	4.75" (120.65mm)	5.0" (127mm)	5.25" (133.35mm)	5.5" (139.7mm)	5.75" (146.05mm)
6.0" (152.4mm)					

Compression Sheets: 48"W x 96"L (122cm x 244cm)

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)

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Absylux® FR

Compression Sheets: 48"W x 120"L (122cm x 305cm)

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)					

Compression Sheets: 60"W x 120"L (152cm x 305cm)

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 Sheets: 48"W x 96"L (122cm x 244cm)

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)		

Extruded Films: 26"W (66cm)

0.01" (0.25mm)	0.02" (0.51mm)

LAST REVISED: 01/05/2024

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