

ABS THERMOPLASTIC SHEET

ABS (Acrylonitrile Butadiene Styrene) is a utility grade sheet produced with the highest quality recycled product and has a 100% virgin cap. ABS offers excellent impact strength and ease in fabrication. Stocked in black and white colors, with a haircell pattern on one side and a smooth finish on the reverse. Available in a thickness range from 0.060" to 0.236". Standard sheet size of 48"x 96". Custom color matching and sizes available.

Run-to-Size Capabilities

Thickness: 0.060" – 0.236"

Width: 19" – 72"

Length: 24" – 156"

TYPICAL PROPERTIES

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	–	1.02-1.10
Color	–	–	Opaque
Water Absorption	ASTM D570	%	0.3-0.5
Mold Shrinkage	–	%	0.3-0.6
Gloss (60 deg)	ASTM D523	GU	3-100
MECHANICAL			
Tensile Strength	ASTM D638	psi	4,000-8,000
Tensile Modulus of Elasticity	ASTM D638	Ksi	230-300
Flexural Strength	ASTM D790	psi	5,000-11,000
Flexural Modulus of Elasticity	ASTM D790	Ksi	200-350
Izod Impact Strength	ASTM D256	ft-lbs/in	1.5-8.0
Rockwell Hardness	ASTM D785	M-scale	30-100
THERMAL			
Vicat Softening Temperature	ASTM D1525	°F	190-220
Heat Deflection Temperature @ 66 psi	ASTM D648	°F	190-206
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	170-190
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.0-6.0 x 10 ⁻⁵

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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