



ABS **Acrylonitrile Butadiene Styrene**

Product Applications

Point of Sale, Automotive Linings, Appliances Components, Trays & Containers, Indoor Signage

Product Features

High Impact Strength, Thermoformable, Excellent Thermal Stability and Electrical Insulating Properties

ABS possesses outstanding impact strength, high mechanical strength and chemical resistance which makes ABS suitable for extremely tough consumer products.

ABS is available in Gloss and Hair-cell finished in both Black and White from 1mm to 4.5mm in a sheet size of 2540 x 1350mm. UV stabilised ABS, known as ASA, is also available as a custom production run in selected colours and gauges.

Physical Properties	Test Method & Units	ABS
Specific Gravity	ASTM D-792	1.06
Rockwell Hardness	ASTM D-785	102
Mechanical Properties		
Tensile Strength	ASTM D-638, kg/cm ²	400
Elongation at Break	ASTM D-638, %	40
Flexural Strength	ASTM D-790 kg/cm ²	640
Flexural Modulus	ASTM D-790, 104 kg/cm ²	2.3
Notched Izod Impact Strength	ASTM D-256	
	1/8" kg-cm-cm	25
	1/4" kg-cm-cm	20
Thermal Properties		
Deflection Temperature Under Load, Annealed	ASTM D-648, °C	98
Vicat Softening Point	ASTM D-1525, °C	105
Continuous Service Temperature Range °C	(Dependent on part "molded-in" stresses)	71-82
Longitudinal Orientation Shrinkage		
150 °C/20min)	K-LRT1, %	6

Tolerances

All dimensions are measured at 22 - 24°C.

Physical Properties	Length	Width	Thickness
Sheet length up to 1.5m	+3/-1.5mm	+1.5/-1.5mm	35%
Sheet length 1.5m to 4m	+10/-0mm	+5/-0mm	35%
Special sizes over 4m	+20/-0mm	+5/-0mm	35%

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