

# DATASHEET

## ABS SHEET (SMOOTH)

Acrylonitrile Butadiene Styrene (ABS) is a high impact, strong and durable material that also offers chemical resistance. Available from us in a wide range of colours, grades and finishes, ABS is used in a variety of applications including automotive, enclosures and point of sale, cases and trays. Due to its hygroscopic nature, ABS may need drying before use.

#### **Applications**

- Automotive Interior & Exterior
- Aircraft Interior Trims
- Home Appliances
- Architectural Model Buildings & Prototypes
- Luggage
- Machine Parts & Rollers
- Pipes & Fittings
- Trays

#### Availability

- Colour Black & White
- Size 2500x1250mm sheets
- Regularly produced in 1mm to 6mm thickness

### **Typical Properties**

| General Properties             | Method  | Unit  | Test Result |
|--------------------------------|---------|-------|-------------|
| Density (SG)                   |         | g/cm3 | 1.06 – 1.08 |
| Vicat Softening Temperature    | ISO 306 | °C    | 99          |
| Heat Deflection Temperature    | ISO 75  | °C    | 100         |
| Tensile Strength               | ISO 527 | MPa   | 40          |
| Elongation at Break            |         | %     | 15          |
| Flexural Strength              | ISO 178 | MPa   | 30          |
| Izod Impact Strength – Notched | ISO 180 | KJ/m2 | 15          |
| Moulding Shrinkage             |         | %     | 85          |
| Forming Temperature            |         | °C    | 0.6 - 0.7   |
| Fire Rating                    | UL94    |       | HB          |

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