



**MULFORD**  
PLASTICS  
*delivering solutions*

**ABS**

### **ABS (Acrylonitrile, Butadiene and Styrene)**

ABS is a combination of three different materials Acrylonitrile, Butadiene, and Styrene, each giving its own set of useful properties. ABS has excellent forming, toughness and rigidity and ideal for products prone to impact abuse in the form of knocks, scuffing and scratching. Typically used internally, however you can add Flame Retardance and UV additives to improve the performance of the base resin.

#### **Key Features**

- Excellent impact & tensile strength
- Good abrasion resistance
- Dimensional stability
- Excellent thermoforming characteristics
- Excellent low temperature performance
- Cost effective
- Solvent cementable

#### **Product Applications**

- Vehicle / truck linings
- Seat backs
- Battery trays
- Air conditioning ducting
- Point of sale display units
- Electrical components
- Refrigeration panels
- Indoor signage
- Luggage and travel goods

## TECHNICAL DATA SHEET

<b>GENERAL</b> Density Water Absorption	ISO1183 ISO62	1.05 ( 0.038) 0.95	g/cm3 ( lb/in3 ) %
<b>MECHANICAL</b> Tensile Strength Elongation at Break Tensile Modulus Flexural Strength Flexural Modulus Izod Impact Strength, Notched, 23°C Izod Impact Strength, Notched, -30°C	ISO527-2 ISO527-2 ISO527-2 ISO178 ISO178 ISO180/1A ISO180/1A	45 ( 6526) 30 2400 ( 348000 ) 70 ( 10152 ) - 33 ( 15.6 ) 12 ( 5.71 )	MPa ( psi ) % MPa ( psi ) MPa ( psi ) MPa ( psi ) kJ/m2 ( ft-lb/in2 ) kJ/m2 ( ft-lb/in2 )
<b>THERMAL</b> Vicat Softening Temperature, B50, Annealed Heat Distortion Temperature, 1.8MPa Linear Thermal Expansion	ISO306 EGR TS-001 DIN53752	100 ( 212 ) 80 ( 176 ) 8-11	°C ( °F ) °C ( °F ) /°K x 10-5

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Mulford International nor any of their suppliers assume any liability for use of information presented.

**AUST** 1300 MULFORD (1300 6853673) **NZ** 0800 MULFORD (0800 6853673)

**AUST** Brisbane | Newcastle | Sydney | Melbourne | Adelaide | Perth  
**NZ** Auckland | Hamilton | Wellington | Christchurch

**WWW.MULFORDPLASTICS.COM**