



HIGH IMPACT ABS SHEET

Technical Specification

Property	ISO Test Method	Unit	High impact ABS
Density ³	ISO1183	G/cm ³	1.05
Izod Impact Strength (notched)	ISO180	J/M	390
Flexural Strength	ISO178	Mpa	55
Tensile Strength	ISO527	Mpa	39
Falling Dart Impact Strength ²	ISO 6603-1	J	100
Vicat Softening Temperature	ISO306A	°C	104
Heat Deflection Temperature	ISO75a	°C	86
Flammability Rating	UL94	-	HB

¹Property evaluations on injection moulded unpigmented material. ²4.0mm unpigmented extruded sheet ³Density values vary with pigmentation.

High Impact ABS Material Safety Data Sheet

Physical Properties

- Flat sheet
- Smooth or embossed finishes
- Melting point 90°C
- Specific gravity 1.05gm/cm³
- Bulk density- 650kg/m³
- Insoluble in water
- Percentage volatiles by volume – negligible

Fire & Explosion Data

Flash point –300°C. Extinguishing media – Water fog, foam carbon dioxide dry chemical..

Ingredients

Pigments (non hazardous) 4%max, Additives (non hazardous) 10% max. Acrylonitrile Butadiene Styrene (CAS#009003-56-9) – 90%

Health Effects Data

Effects of inhalation; fumes from thermal decomposition and dust generated from machining may cause temporary breathing difficulties. Effects of ingestion – non toxic. Eye contact; Fumes or dust may cause irritation. Skin contact; hot material may cause burns.

Emergency Procedures

Spillage; lift spillage mechanically.

First Aid

First aid for inhalation; remove victim to fresh air, seek medical attention if symptoms persist. First Aid for ingestion; seek medical attention if symptoms develop. First Aid for eye contact-flush eye with water. First Aid for skin contact-cool burns with water, seek medical attention for removal of molten material.

Protective Clothing/ Control Measures

Respiratory protection; Dust masks should be available. Eye protection – use safety glasses. Thermal gloves and protective clothing should be worn. Ventilation requirements – good local and adequate general ventilation should be ensured.

Waste Disposal

Controlled waste; No. Preferred disposal method – incineration or sanitary landfill, regarding local legal requirements.

Ecological Hazards

Water hazard; no ecological hazard. Land hazard – no hazard.

Transport.

Special requirements- none. Labelling – (not dangerous).

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