



Fire Retardant ABS Sheet

Technical Specification

Properties	ISO Test Method	Unit	FR ABS
Density	ISO 1183	g/cm ³	1.24
Izod Impact Strength (notched)	ISO 180	J/m	270
Flexural Strength	ISO 178	Mpa	60
Tensile Strength	ISO 527	Mpa	39
Falling Dart Impact Strength ²	ISO 6603-1	J	59.5
Vicat Softening Temperature	ISO 306a	°C	100
Heat Deflection Temperature	ISO 75a	°C	91
Flammability Rating	UL94/V-0	mm	1.6

¹Property evaluations on injection moulded unpigmented material. ²4.0mm unpigmented extruded sheet.

Fire Retardant ABS Sheet Material Safety Data Sheet

Physical Properties

- Flat Sheet
- Smooth or embossed finished
- Melting Point 90°C
- Specific Gravity 1.05gm/cm³
- Bulk density - 650kg/m³
- Insoluble in water
- Percentage volatiles by volume - negligible

Fire & Explosion Data

Auto ignition temperature 500°C Flash point 450°C.
 Fire and explosion hazards; formation of toxic fumes, hydrogen halides and styrene, Acrylonitrile and butadiene rubber in trace quantities.
 Extinguishing media: water fog, carbon dioxide, dry chemical, Special fire fighting procedures; the material is barely flammable.

Ingredients / CAS Number

Pigments (non hazardous) 4% max, Additives (non hazardous) – 10% max, Antimony Trioxide CAS #001309-64-4 12% max, Acrylonitrile Butadiene Styrene CAS#009003-56-9 60% max, Bis-(tri-bromophenoxy) ethane CAS#037853-59-1 20% max.

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.

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.

Emergency Procedures

Spillage; lift spillage mechanically.

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).

The data are typical values and are not intended to represent specifications. Their aim is to guide the user towards a material choice. All statements, technical information and recommendations in this product datasheet are presented in good faith, based upon tests believed to be reliable and practical experience. However, Bay Plastics Ltd cannot guarantee accuracy or completeness of this information, and it is the buyer's responsibility to determine the suitability of products in any given application. Therefore no liability whatsoever shall attach to Bay Plastics Ltd for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the aforementioned information products by the buyer.

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