



FIRE RETARDENT ABS SHEET

Technical Specifications

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	ISO 75A	°C	91
Flammability Rating	UL94/ V-0	mm	1.6

¹Property evaluations on unpigmented raw material from which this sheet is extruded. ²4.0mm unpigmented sheet.

Fire retardent ABS 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).

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