



Acrylic Capped ABS Sheet

Technical Specification

Properties	ISO Test Method	Unit	Base	Capping
Density	ISO 1183	g/cm ³	1.05	1.17
Izod Impact Strength (notched)	ISO 180	j/m	220	32
Flexural Strength	ISO 178	Mpa	70	88.5
Tensile Strength	ISO 527	Mpa	47	63
Falling Dart Impact Strength ²	ISO 6603-1	J	31	31
Vicat Softening Temperature	ISO 306a	°C	110	106
Heat Deflection Temperature	ISO 75a	°C	101	93

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

Acrylic Capped ABS Sheet Material Safety Data Sheet

Physical Properties

- Flat sheet
- Smooth or embossed finish
- Melting point 130°C
- Specific gravity 1.15 – 1.19gm/cm³
- Bulk density -650kg/m³
- Insoluble in water
- Percentage volatiles by volume – negligible

Fire & Explosion Data

Auto ignition temperature 390°C. Extinguishing media – water fog, foam carbon dioxide dry chemical.

Ingredients

Capping – methyl methacrylate polymer.
Note: This material safety data sheet should be read in conjunction with that pertaining to the capped material.

Emergency & First Aid Procedures

In case of fire an aqualung is obligatory.

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.

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