Fire Retardant ABS Sheet

Technical Specification

<table>
<thead>
<tr>
<th>Properties</th>
<th>ISO Test Method</th>
<th>Unit</th>
<th>FR ABS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>ISO 1183</td>
<td>g/cm³</td>
<td>1.24</td>
</tr>
<tr>
<td>Izod Impact Strength (notched)</td>
<td>ISO 180</td>
<td>j/m</td>
<td>270</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ISO 178</td>
<td>Mpa</td>
<td>60</td>
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<tr>
<td>Tensile Strength</td>
<td>ISO 527</td>
<td>Mpa</td>
<td>39</td>
</tr>
<tr>
<td>Falling Dart Impact Strength²</td>
<td>ISO 6603-1</td>
<td>J</td>
<td>59.5</td>
</tr>
<tr>
<td>Vicat Softening Temperature</td>
<td>ISO 306a</td>
<td>°C</td>
<td>100</td>
</tr>
<tr>
<td>Heat Deflection Temperature</td>
<td>ISO 75a</td>
<td>°C</td>
<td>91</td>
</tr>
<tr>
<td>Flammability Rating</td>
<td>UL94/V-0</td>
<td>mm</td>
<td>1.6</td>
</tr>
</tbody>
</table>

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