SAYTEX® RB-49
FLAME RETARDANT

DESCRIPTION
Tetrabromophthalic Anhydride
SAYTEX RB-49 flame retardant, tetrabromophthalic anhydride, is an additive or reactive intermediate containing aromatic bromine.

APPLICATIONS
SAYTEX RB-49 flame retardant is designed as a reactive intermediate for use in unsaturated or saturated polyesters, polyols, esters and imides.

Additional information on the use of SAYTEX RB-49 flame retardant may be found in various technical bulletins, which are available from Albemarle.

BENEFITS AND FEATURES
SAYTEX RB-49 flame retardant is a highly efficient reactive aromatic bromine source. In some cases SAYTEX RB-49 flame retardant’s derivatives can be substituted for higher bromine-containing flame retardants on an equal weight % basis rather than an equal % bromine basis. SAYTEX RB-49 flame retardant allows for the highest level of bromine to be reacted into unsaturated polyesters at comparable monomer levels.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Bromine (theoretical)</td>
<td>68.9</td>
</tr>
<tr>
<td>Melt range (°C)</td>
<td>279.5 - 280.5</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>463.7</td>
</tr>
<tr>
<td>Appearance/form</td>
<td>white/powder</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.91</td>
</tr>
<tr>
<td>Bulk density (Hosokawa powder tester, lb/ft3, [Kg/m3])</td>
<td>99 [1586] 72 [1153]</td>
</tr>
<tr>
<td>Packed</td>
<td>99 [1586]</td>
</tr>
<tr>
<td>Aerated</td>
<td>72 [1153]</td>
</tr>
<tr>
<td>Average particle size (µm)</td>
<td>76</td>
</tr>
</tbody>
</table>

These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from sales, customer service or customer technical service.
TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refractive index</td>
<td>1.83</td>
</tr>
<tr>
<td>Solubility in (wt. % at 25°C)</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Acetone</td>
<td>2.5</td>
</tr>
<tr>
<td>Methanol</td>
<td>2.9</td>
</tr>
<tr>
<td>Toluene</td>
<td>5.1</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td>Styrene</td>
<td>8.1</td>
</tr>
<tr>
<td>TGA (TA Instrument model 2950, 10°C/min, under N2)</td>
<td></td>
</tr>
<tr>
<td>1% weight loss, °C</td>
<td>217</td>
</tr>
<tr>
<td>5% weight loss, °C</td>
<td>244</td>
</tr>
<tr>
<td>10% weight loss, °C</td>
<td>256</td>
</tr>
<tr>
<td>50% weight loss, °C</td>
<td>289</td>
</tr>
<tr>
<td>90% weight loss, °C</td>
<td>301</td>
</tr>
</tbody>
</table>

SHIPPING INFORMATION

Transportation Classification
Not regulated for transportation

Harmonized tariff number
2917.39

Packaging and minimum order information is available from sales or customer service.

CHEMICAL REGISTRATION NUMBERS

CAS: 632-79-1
EINECS: 25111851
MITI: 3-62

RESPONSIBLE CARE

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Safety data sheets (SDS) are available upon request.

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