Dead Sea Bromine Group

PBB-PA

POLY(PENTABROMOBENZYL ACRYLATE)

CAS No. 59447-57-3

\((\text{C}_9\text{H}_5\text{Br}_5\text{O}_2)\_n \cdot \text{Br}, 71.8\%\)

USE

PBB-PA is a polymeric flame retardant with a high content of aromatic bromine and good thermal stability. It is especially suitable for engineering thermoplastics. PET, PBT, nylon and polystyrene.

APPEARANCE

White to off-white, free-flowing powder.

TYPICAL PROPERTIES

Bromine content, % ........................................... 70
Density, g/cm³ ..................................................... 2.05
Melting range, °C ........................................... 190-220

SOLUBILITY

At ambient temperatures and up to 100°C, PBB-PA is insoluble in common organic solvents: aliphatic, aromatic and chlorinated hydrocarbons, non-cyclic and cyclic ethers (e.g. dioxane and THF) and ketones, DMF and DMSO.

THERMOGRAVIMETRIC ANALYSIS, heating rate = 10°C/minute in air

<table>
<thead>
<tr>
<th>°C</th>
<th>Weight loss, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>330</td>
<td>2</td>
</tr>
<tr>
<td>345</td>
<td>5</td>
</tr>
<tr>
<td>355</td>
<td>10</td>
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Please note that the values indicated do not constitute specification limits. To obtain current specification refer to your local sales office or Dead Sea Bromine Group at address herein.

TOXICITY

LD₅₀ (oral, rat) > 5000 mg/kg.

STORAGE AND HANDLING

PBB-PA is stable over long periods of storage. Store in a dry, cool, ventilated area. Avoid inhalation, ingestion and contact with the skin and eyes.

For health and safety instructions and transportation details refer to the Material Safety Data Sheet, available upon request.
For further advice and technical assistance contact our sales office in your area:

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