

## Emerald Innovation™ 1000

**Emerald Innovation 1000** is a versatile polymeric brominated flame retardant with excellent thermal stability. **Emerald Innovation 1000** is effective in a broad spectrum of applications in consumer electronics, automotive, textile back coating and construction materials.

### Chemical Structure

### Typical Properties of Emerald Innovation 1000

Appearance	Off-White Powder
Bromine Content, %	78
Average Particle Size (µm)	5-6
Tg, °C	157
Sp. Gr.	2.9

### Proprietary

### Thermogravimetric Analysis (@ 10 °C/min under N<sub>2</sub>)

5% Weight Loss, °C	410
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### Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	2.2
Dichloromethane	0.2	Methyl Ethyl Ketone	0.1
Methanol	< 0.1		

**Emerald Innovation 1000** is an effective replacement for Decabromodiphenyl oxide and Decabromodiphenyl ethane flame retardants currently used in thermoplastic, elastomeric and thermoset polymer systems, such as HIPS, ABS, polypropylene, LDPE, HDPE, EPDM, unsaturated polyester, and epoxy resins. **Emerald Innovation 1000** is a versatile flame retardant that can also be used for coatings and adhesive systems, including backcoatings for fabrics.

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless stated, proper storage will permit usage of the product for 6 to 12 months from the date of receipt. With any developmental flame retardant there is limited information available about its properties.

For additional handling and toxicological information, consult the Chemtura Material Safety Data Sheet.

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