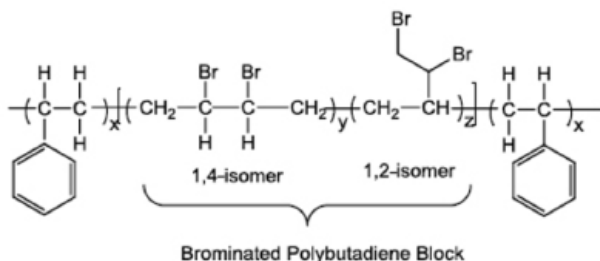


# Emerald Innovation™ 3000 Brominated Polymeric Flame Retardant for Polystyrene Foams

**Emerald Innovation™ 3000** is a highly effective, sustainable brominated polymeric flame retardant offering a variety of enhanced performance properties in EPS (expanded polystyrene) and XPS (extruded polystyrene) foams.

CAS# 1195978-93-8



**Emerald Innovation™ 3000** is an alternative to Hexabromocyclododecane (HBCD) in EPS and XPS foam products. Emerald 3000 will require stabilization for use in XPS production processes. This product can be effectively used with flame retardant synergists that are typical used today in EPS and XPS applications. Its reduced tendency to retain water helps to decrease the residual water content of EPS beads which leads to improved process efficiency.

**Emerald Innovation™ 3000** enables formulators achieve applicable fire safety standards for polystyrene foam insulation. As an example; 1.7 % of Emerald 3000 successfully passes the EN Class E and German B-2 flammability tests.

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.

**TYPICAL DATA:**

<b>Typical Properties of Emerald Innovation™ 3000</b>	
<b>Appearance</b>	White Powder
<b>Bromine Content, %</b>	64
<b>Softening, °C</b>	120
<b>Specific Gravity</b>	1.9
<b>Bulk Loose Density @ 25 °C, g/ml</b>	0.5
<b>Bulk Packed Density @ 25 °C, g/ml</b>	0.7

<b>Thermogravimetric Analysis (10 mg @ 10 °C/minute under N<sub>2</sub>)</b>			
<b>Weight Loss, %</b>	5	10	50
<b>Temperature, °C</b>	262	266	286

<b>Solubility (g/ 100 g Solvent)</b>			
<b>Water</b>	Insoluble	Methanol	Insoluble
<b>Methylene Chloride</b>	>20	Styrene	>20

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



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