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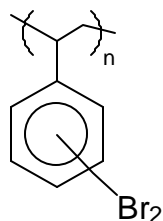
Business Unit or Division Polymer Additives
One Great Lakes Boulevard, P.O. Box 2200, West Lafayette, IN 47996-2200

Document Type **Technical Information**

Product Name **Great Lakes PDBS-80™
Halogenated Flame Retardant**

Great Lakes PDBS-80 is a polymeric flame retardant for polyamides and thermoplastic polyesters (PBT and PET). **Great Lakes PDBS-80** is a homopolymer of dibromostyrene and is in a pellet form for ease of handling and improved worker hygiene.

Poly(dibromostyrene)
CAS Reg. Number [148993-99-1]



Typical Properties

Appearance	Amber Pellets
Formula Weight	~ 60,000
Bromine Content, %	59
Glass Transition Temperature, °C	144
Specific Gravity @ 25 °C, g/ml	1.9
Bulk Packed Density @ 25 °C, g/ml	1.11

Thermogravimetric Analysis (10 mg @ 10 °C/minute under N₂)

Weight Loss, %	5	10	50	95
Temperature, °C	368	378	404	544

Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	Complete
Methylene Chloride	Complete	Methyl Ethyl Ketone	2
Methanol	< 0.1	Acetone	Partial

The key performance features of **Great Lakes PDBS-80** include:

- Pellet form for ease of handling.
- Non-blooming
- Superior flow in glass filled V-0 polyamide formulations
- Excellent thermal/color stability
- Melt blendable for ease of processing

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