



FaRetar Flame Retardant Technology Co., Ltd.

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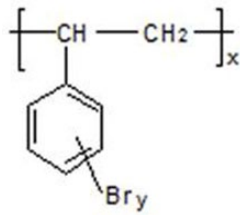
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FARETAR™ BPS

Brominated Polystyrene

Product description

FARETAR™ BPS is a bromine flame retardant with high flame retardancy, thermal and light stability. It is widely used in engineering plastics such as polybutylene terephthalate, polyethylene terephthalate, polyphenylene oxide, nylon-66, etc.

Molecular Structure	
Chemical Name	Brominated Polystyrene
Formula	(C8H8-xBrx)n
CAS Number	88497-56-7
Bromine content (theoretical), %	66
Appearance	White or light-yellow granules / powder
Specific gravity, g/cm ³	2.1~2.5

Comparable grade

Chemtura BA-59P

Albemarle Saytex CP-2000

ICL FR-1524

Characteristics

- Outstanding thermal stability
- Non-blooming
- Low conductivity and good electrical properties.
- Good compatibility with some engineering plastic.

Application

FARETAR™ BPS flame retardant provides outstanding thermal stability and electrical performance. It is particularly suitable for engineering plastic applications such as HIPS, polyesters (PET, PBT, PCT) and polyamides (nylons).

Specification

Item	Specification
Softening Point, °C	≥ 210
Bromine Content, %	≥ 66.0
Volatiles, %	≤ 0.3
1% thermal weight loss, °C	≥ 300

*Test method: Q/0783FRT020-2019

Solubility Reference (wt. % at 25 °C)

Solvent	Solubility
Water	< 0.01
Acetone	< 0.01
Methanol	< 0.01
Toluene	0.7
Styrene monomer	11.2

Thermogravimetric Analysis Reference, (10°C/min, air)

Weight Loss (%)	°C
2	340
4	358
10	374

Packaging

In 25 kg PP woven bag or 1000kgs jumbo bag; package can also be made according to client's request.

Storage

Store the product in a cool, dry, well - ventilated area away from incompatible materials.