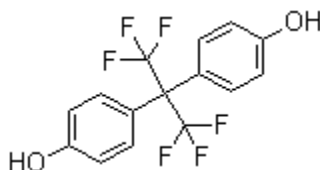


Technical Data Sheet

SUNTOMER BPAF

Hexafluorobisphenol A

Description



| | | | |
|---------------|-----------------------|----------|--|
| Chemical Name | Hexafluorobisphenol A | Formula | (CF ₃) ₂ C(C ₆ H ₄ OH) ₂ |
| CAS # | 1478-61-1 | Mol. wt. | 336.23 |

Specifications

| Item | Specification |
|--------------------|---------------|
| Appearance | White Powder |
| Melting point (°C) | 159-163 |
| Purity (min. %) | ≥99.5 |
| Water(%) | ≤0.5 |

Applications

Monomer Applications

Bisphenol AF can be used as a monomer for a variety of polyimides, polyamides, polyesters, polycarbonates, and other specialty polymers. These polymers exhibit high temperature and chemical resistance. Addition of CF₃-containing units (as found in BPAF) to any polymer will result in an improvement of chemical and thermal properties, without sacrificing mechanical properties. Some examples of individual applications involving Bisphenol AF as a monomer are:

- **Epoxy Resins:** A poly (hydroxyether) resin can be prepared from BPAF. The resulting high molecular weight resin possesses excellent thermoplastic properties. The resins show excellent adhesive and thermal properties. They are soluble in numerous water-soluble solvents and can be used in gas membrane applications, such as oxygenating membranes.
- **Polyphosphonates:** BPAF can react with a variety of phosphodichlorides in a basic environment to produce a polymerized phosphonate. These polyphosphonates can be characterized as having excellent flame-retardant characteristics while maintaining desirable mechanical properties. These polymers may be latexed in with other mixtures to improve the final article's thermal degradation properties.
- **Polycarbonates:** BPAF can be utilized as a monomer in the production of polycarbonate copolymers, resulting in a material with increased hydrolytic stability and caustic resistance. Applications such as the internal coating of dishwashers would benefit from better caustic resistance, resulting in a longer lifespan.
- **Adhesion Primer:** BPAF can be used to produce base-resistant primers, to improve the adhesion of a

fluoroelastomer to metal or glass. This base-resistant primer is most suitable for adhering fluoropolymers which underwent a polyhydroxy cure, such as a BPAF cure.

Delivery & Storage

Package 20kg carton with PE inner liner.
Storage Keep package closed. Store dark and dry