Epovion®

Product Name : Epovion® SOL-S 40

CAS number : 68928-70-1

Chemical Type : Brominated Bisphenol-A Epoxy Resin (solid grade)

Business Unit : Epoxy Resin

1. Product Description

Epovion® SOL-S 40 is a solid brominated bisphenol-A based epoxy resin manufactured from tetrabromobisphenol-A and epichlorohydrin.

Due to its high bromine content, the resin provides inherent flame-retardant performance while maintaining physical and electrical properties comparable to conventional BPA epoxy resins. It is designed for applications where fire resistance and electrical reliability are required.

2. Typical Applications

Epovion® SOL-S 40 is typically used in:

- Laminates
- Electrical molding compounds

Actual suitability and performance depend on formulation design, curing agent selection, and processing conditions applied by the user.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical state	–	Solid	Visual
Epoxy equivalent weight	g/eq	~380–410	Internal Method
Softening point	°C	~64–74	Internal Method
Hydrolyzable chlorine	ppm	≤200	Internal Method
Bromine content	%	~46–50	Internal Method

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Property	Unit	Typical Value	Test Method
Color (Gardner)	–	≤1.0	ASTM D1544

Note: Typical values are indicative only and do not constitute a specification.

4. Recommended Use

Epovion® SOL-S 40 is suitable for curing with commonly used epoxy hardeners for solid epoxy systems, including amine and anhydride curing agents.
Formulation ratios, curing schedules, and processing conditions should be determined and validated by the user through appropriate testing to achieve the required balance of flame resistance, mechanical properties, and electrical performance.

5. Packaging & Logistics

Epovion® SOL-S 40 is supplied in standard industrial packaging formats, subject to confirmation at the quotation stage. Minimum order quantities depend on packaging configuration and destination requirements. The product is offered under standard Incoterms such as FOB, CFR, or CIF, as specified in the quotation. Indicative lead times are provided at quotation and confirmed upon order acceptance.

6. Handling & Storage

Epovion® SOL-S 40 should be stored in its original, tightly closed containers at ambient temperature. When stored under recommended conditions, the product maintains stability for at least 12 months. Refer to the SDS for detailed handling and safety instructions.

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