Epovion®

Product Name : Epovion® NOV-L 63

CAS number : Bisphenol-A type solid epoxy resin:25036-25-3

Xylene:01330-20-7

Chemical Type : Phenolic Novolac Epoxy Resin

Business Unit : Epoxy Resin

1. Product Description

Epovion® NOV-L 63 is a phenolic novolac based epoxy resin combining the inherent heat resistance of a phenolic backbone with the reactivity of epoxy functional groups.

Compared with bisphenol-A based epoxy resins, which typically contain two epoxy groups per molecule, this novolac epoxy resin has a higher average epoxy functionality, resulting in tightly cross-linked cured networks when reacted with suitable curing agents. The cured systems exhibit improved elevated-temperature performance, chemical resistance, and adhesion.

2. Typical Applications

Epovion® NOV-L 63 is typically used in:

- Laminates
- Civil engineering applications
- Filament winding
- Composite materials

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

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical state	–	Semi-solid	Visual
Epoxy equivalent weight	g/eq	~170–190	Internal Method

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Property	Unit	Typical Value	Test Method
Average epoxy	–	~3.6	Calculated
Color (Gardner)	–	≤3.0	ASTM D1544
Solution viscosity (25 °C)	–	H–J	Internal Method

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

4. Recommended Use

Epovion® NOV-L 63 is suitable for curing with amine, anhydride, and other curing systems commonly used for novolac epoxy resins.

Formulation ratios, curing schedules, and processing conditions should be determined and validated by the user through appropriate testing to achieve the desired balance of thermal and mechanical performance.

5. Packaging & Logistics

Epovion® NOV-L 63 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® NOV-L 63 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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