

D.E.N.™ 438-A85

Please use this Technical Data Sheet (TDS) in conjunction with this product's country-specific Safety Data Sheet (SDS) and the Safe Use conditions as described therein. Current Safety Data Sheets can be requested from Olin at info@olinbc.com

Description D.E.N.™ 438-A85 Epoxy Novolac Resin is a solution of a semi-solid reaction product of epichlorohydrin and phenol-formaldehyde novolac in acetone.

D.E.N. 438-A85 Epoxy Novolac Resin is a general purpose, widely used epoxy novolac resin. It is recognized as a standard for high temperature applications from which variations have been developed. D.E.N. 438-A85 Resin has multi-epoxy functionality (± 3.6). These additional reactive sites produce tightly cross-linked cured systems. D.E.N. 438-A85 Epoxy Novolac Resin is used alone or in combination with bisphenol A based epoxy resins in solution formulations where ease of mixing and processing is required. The thermal stability offered by epoxy novolac resins is a widely accepted asset in pre-preg manufacture for electrical laminates where they improve the resistance to hot solder as well as elevated temperature service. They are also used in coating applications where an increased corrosion/chemical resistance is desired.

Applications

- Adhesives
- Castings / Potting / Encapsulation / Tooling
- Composites
- Industrial Coatings: Can & Coil
- Industrial Coatings: Marine and Protective

Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
EEW (Based on solids)	176 to 181 g/eq	176 to 181 g/eq	ASTM D1652
Viscosity, absolute (77°F (25°C))	500 to 1200 mPa·s	500 to 1200 mPa·s	ASTM D445
Colour (Max. Gardner)	2	2	ASTM D1544
Density (77°F (25°C))	1.14 g/cm ³	1.14 g/cm ³	ASTM D4052
Solids Content	84 to 86 %	84 to 86 %	ASTM E203

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Typical properties: these are not to be construed as specifications.

Product Stewardship

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Olin encourages its customers and potential users of Olin products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that Olin products are not used in ways for which they were not intended or tested, Olin personnel are available to assist customers in dealing with ecological and product safety considerations. Your Olin sales representative can arrange for the proper contacts.

Regulatory Datasheets (RDS)

Olin Corporation provides information on the regulatory status of its products under prominent regulatory programs in the Regulatory Datasheet (RDS). Regulatory Datasheets can be requested from Olin at info@olinbc.com

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