

D.E.N.™ 428

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.™ 428 Epoxy Novolac Resin is a liquid reaction product of epichlorohydrin and phenol-formaldehyde novolac.

D.E.N. 428 Epoxy Novolac Resin is an epoxidized phenolic resin of higher functionality than standard bisphenol A based liquid epoxy resins. Epoxy novolac resins combine, in one molecule, the thermal stability of a phenolic backbone with the reactivity and versatility of an epoxy. They are distinguished by particular good thermal stability, mechanical strength and resistance against chemicals. They find ready acceptance for lining pipelines, storage tanks and pumps. D.E.N. 428 Epoxy Novolac Resin has been developed to fill the gap between the two functional standard bisphenol F based liquid epoxy resins and the high viscous epoxy novolac resins. The multi-functionality, ± 2.8 epoxy groups per mole, of D.E.N. 428 Epoxy Novolac Resin produces a more tightly cross-linked cured system than bisphenol A based liquid epoxy resins having improved high temperature performance and improved resistance against various chemical. D.E.N. 428 Epoxy Novolac Resin can be formulated to fully cure at ambient temperatures with the corresponding curing agents without the need of additional heat cure.

- Applications**
- Adhesives
 - Building & Civil Engineering
 - Castings / Potting / Encapsulation / Tooling
 - Composites
 - Industrial Coatings: Marine and Protective

Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
EEW	168 to 178 g/eq	168 to 178 g/eq	ASTM D1652
Viscosity, absolute (77°F (25°C))	35000 to 45000 mPa·s	35000 to 45000 mPa·s	ASTM D445
Colour (Max. Pt-Co.)	< 250	< 250	ASTM D1209
Density (77°F (25°C))	1.20 g/cm ³	1.20 g/cm ³	ASTM D4052
Hydrolyzable Chloride	< 1200 ppm	< 1200 ppm	ASTM D1726

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

Olin Corporation has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis of our Product Stewardship philosophy by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee and public health and the environment.

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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