

## D.E.H.™ 445

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](mailto:info@olinbc.com)

**Description** D.E.H.™ 445 Epoxy Curing Agent is a modified cycloaliphatic amine based curing agent for epoxy resins. It contains no nonylphenol.

**Benefits** Epoxy systems cured with D.E.H.™ 445 have a very low tendency to yellowing in case of UV-irradiation with good water spot resistance after a short curing time.

**Applications**

- Adhesives
- Building & Civil Engineering: Mortars & Grouts
- Building & Civil Engineering: Roller Coating Flooring
- Building & Civil Engineering: Self-leveling Flooring
- Industrial Coatings: Marine and Protective

Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
AHEW	105 g/eq	105 g/eq	
Viscosity, absolute (77°F (25°C))	370 to 570 mPa·s	370 to 570 mPa·s	ASTM D445
Colour (Max. Gardner)	1	1	ASTM D1544
Density (77°F (25°C))	1.02 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	ASTM D4052
Amine Value	280 to 310 mg KOH/g	280 to 310 mg KOH/g	ISO 9702
Pot Life <sup>2</sup> (73°F (23°C), 100 g)	37 min	37 min	GELNORM Geltimer-TC
Shore D Hardness <sup>3</sup>			DIN 53505
55°F (13°C), 80% RH, 1.0 day	37	37	
55°F (13°C), 80% RH, 2.0 day	67	67	
55°F (13°C), 80% RH, 7.0 day	73	73	
73°F (23°C), 50% RH, 1.0 day	68	68	
73°F (23°C), 50% RH, 2.0 day	75	75	
73°F (23°C), 50% RH, 7.0 day	76	76	
Pendulum Hardness (Koenig) <sup>4</sup>			DIN 53157
55°F (13°C), 80% RH, 1.0 day	8	8	
55°F (13°C), 80% RH, 2.0 day	15	15	
55°F (13°C), 80% RH, 7.0 day	84	84	
73°F (23°C), 50% RH, 1.0 day	56	56	
73°F (23°C), 50% RH, 7.0 day	167	167	
Compressive Strength <sup>3</sup>			ISO 604
14.0 day, 73°F (23°C), 50% RH	14900 psi	103 MPa	
Flexural Strength <sup>3</sup>			ISO 178
8.0 day, 73°F (23°C), 50% RH + 3 hrs @ 80°C	11600 psi	80.0 MPa	
Tensile Strength <sup>3</sup>			ISO 527-2
14.0 day, 73°F (23°C), 50% RH	6530 psi	45.0 MPa	
Elongation at Break <sup>3</sup>			ISO 527-2
14.0 day, 73°F (23°C), 50% RH	3.4 %	3.4 %	

### Notes

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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Reference Resin: D.E.R.™ 331

<sup>3</sup> Reference Resin: D.E.R.™ 3581

<sup>4</sup> Reference Resin: D.E.R.™ 3531

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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](mailto:info@olinbc.com)

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