

D.E.H.™ 4909

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.H.™ 4909 Epoxy Curing Agent is a modified polyamine based curing agent for epoxy resins.

Benefits D.E.H.™ 4909 is free of benzyl alcohol, nonyl phenol, Bisphenol A and any inert volatile compounds. It has low viscosity, high reactivity and is solvent-free. It is the first generation of curing agents developed without benzyl alcohol, for formulation of solvent-free primers for low-emission flooring systems. When used with an appropriate top-coat system, D.E.H. 4909 can be used to formulate floorings systems to be applied in areas requiring low emissions. D.E.H.™ 4909 can also be used to formulate binders for civil engineering applications and coatings with very low emission, where it provides excellent wetting properties on cement surfaces. D.E.H. 4909 provides epoxy systems with long pot-life and short tack-free time. When applied as a 200µm thick layer, the film can be tack-free in 6 hours at 23°C.

Applications

- Building & Civil Engineering: Primers & Impregnation
- Composites
- Industrial Coatings: Marine and Protective

Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
AHEW	83 g/eq	83 g/eq	
Viscosity, absolute (77°F (25°C))	180 to 280 mPa·s	180 to 280 mPa·s	ASTM D445
Colour (Max. Gardner)	2	2	ASTM D1544
Density (77°F (25°C))	1.01 g/cm ³	1.01 g/cm ³	ASTM D4052
Amine Value	380 to 440 mg KOH/g	380 to 440 mg KOH/g	ISO 9702
Pot Life ² (73°F (23°C), 100 g)	60 min	60 min	GELNORM Geltimer-TC
Shore D Hardness			DIN 53505
55°F (13°C), 80% RH, 1.0 day ³	10	10	
55°F (13°C), 80% RH, 1.0 day ²	10	10	
55°F (13°C), 80% RH, 2.0 day ³	61	61	
55°F (13°C), 80% RH, 2.0 day ²	61	61	
55°F (13°C), 80% RH, 7.0 day ³	73	73	
55°F (13°C), 80% RH, 7.0 day ²	73	73	
73°F (23°C), 50% RH, 1.0 day ²	82	82	
73°F (23°C), 50% RH, 2.0 day ²	84	84	
73°F (23°C), 50% RH, 7.0 day ²	84	84	
Pendulum Hardness (Koenig) ²			DIN 53157
55°F (13°C), 80% RH, 1.0 day	12	12	
55°F (13°C), 80% RH, 7.0 day	156	156	
73°F (23°C), 50% RH, 1.0 day	102	102	
73°F (23°C), 50% RH, 7.0 day	179	179	
Compressive Strength ²			ISO 604
14.0 day, 73°F (23°C), 50% RH	17400 psi	120 MPa	
Flexural Strength ²			ISO 178
8.0 day, 73°F (23°C), 50% RH + 3 hrs @ 80°C	13800 psi	95.0 MPa	
Tensile Strength ²			ISO 527-2
14.0 day, 73°F (23°C), 50% RH	6670 psi	46.0 MPa	
Elongation at Break ²			ISO 527-2
14.0 day, 73°F (23°C), 50% RH	1.5 %	1.5 %	

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.

² Reference Resin: D.E.R.™ 3531

³ Reference Resin: D.E.R. 3531

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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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