

derakane®
epoxy vinyl esters



DERAKANE® 790 E Novolac Epoxy Vinyl Ester Resin

Description

DERAKANE 790 is a thickenable novolac based epoxy vinyl ester resin for use in sheet molding compound or bulk molding compound. This resin contains a low shrink additive for superior shrink control and dimensional capability. Features include:

- Good physical properties
- High heat resistance
- Excellent dimensional tolerance

Applications and Use

DERAKANE 790 resin can be used for underhood/engine parts (valve covers, oil pans), high strength and corrosion resistant applications.

Typical Liquid Resin Properties

Property ⁽¹⁾	Value	Unit
Viscosity, Brookfield (LV spindle #3 at 30 rpm)	1200	mPas (cP)
Non-volatiles	53	%
Specific gravity	1.03	g/ml
Acid value	27	mg KOH/g
Water content (maximum)	0.1	%
Gel time (AVK) at 140°C	3	min

(1) Properties measured at 25°C (77°F) unless otherwise noted. Properties are typical values, based on material tested in our laboratories, but vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

Typical Cured Resin Properties

Property ⁽¹⁾ of Clear Casting	Value	Unit	Method
Tensile strength	60	MPa	ASTM D638
Elongation at break	5	%	ASTM D638
Flexural strength	120	MPa	ASTM D790
Heat deflection temperature (1.81 MPa)	145	°C	ASTM D648
Hardness	40	Barcol	ASTM D2583

Certificates and Approvals

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, comply with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.



Responsible Care*

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Standard Package Steel Drum with Net Weight of 205 Kg (452 Lb)
DOT Label Requirement: Flammable Liquid

Commercial Warranty Six months from date of manufacture, when stored in accordance with the conditions stated below.

Storage Drums - Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock.

Bulk - See Ashland's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from Ashland at +1.614.790.3333 or 800.523.6963.

All other conditions being equal, higher storage temperature will reduce product stability and lower storage temperature will extend product stability.

Notice All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which Ashland assumes legal responsibility. Any warranties, including warranties of merchantability or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of Ashland, Ashland makes no warranty or representation regarding the results which may be obtained by the user. It shall be the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

Ashland requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.



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