

Technical Data Sheet

EPIKURE™ Curing Agent 3290

Product Description

EPIKURE™ Curing Agent 3290 is a modified aliphatic amine, light colored, low viscosity epoxy curing agent. Systems cured with EPIKURE 3290 exhibit excellent solvent resistance. Mix ratios are less critical than standard polyamines.

Application Areas/Suggested Uses

- Metal and plastic adhesives
- Small castings
- Laminates
- Electrical potting
- Automotive body patching compounds
- Tooling compounds

Benefits

- Reduced vapor pressure
- Low shrinkage
- Less critical mix ratios
- Good chemical resistance
- Low mixed viscosity

Sales Specifications

Property	Value	Unit	Test Method
Amine Value	990 - 1020	mg/g	ASTM D2896
Color	4	Gardner	ASTM D1544
Viscosity at 25°C	350 - 450	cP	ASTM D2196

Typical Properties

EPIKURE Curing Agent 3290
<https://www.hexion.com/en-US/product/epikure-curing-agent-3290>

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Property	Value	Unit	Test Method
Appearance	Clear and free of foreign particles		
Density @ 25°C	8.5	lbs/gal	ASTM D1475
Equivalent Weight Approx.	48		
Flash Point	>110	°C	ASTM D3278
Mix Ratio EPON™ Resin 828	25		

Performance Properties

Table 1 / Properties of epoxy systems cured with EPIKURE Curing Agent 3290

Composition	Method	Units	A	B	C	D
EPON™ Resin 828		pbw	100	–	–	–
EPON Resin 813		pbw	–	100	–	–
EPON Resin 815		pbw	–	–	100	–
EPON Resin 8132		pbw	–	–	–	100
EPIKURE 3290 Curing Agent		pbw	25	25	25	23
Handling Properties @ 25°C						
Viscosity, Initial		cP	5,400	880	800	800
Pot Life, 100 gram mass		min	23	27	31	33
Cured State Properties ¹						

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Composition	Method	Units	A	B	C	D
Heat Deflection Temperature	ASTM D648	°C	98	55	59	50
Tensile Strength	ASTM D638	psi	10,740	10,010	7,945	8,838
Tensile Elongation at break		%	10.0	6.7	9.6	9.6
Flexural Strength	ASTM D790	psi	16,954	19,316	16,694	14,162
Flexural Modulus. Initial		ksi	440	570	480	420
Hardness		Shore D	88	86	84	82
Chemical Resistance ²						
Water absorption		%	0.19	0.15	0.24	0.23
5% Acetic Acid		%	1.10	4.24	4.66	3.68
5% Sodium hydroxide		%	0.17	0.12	0.27	0.20
50% Xylene/50% Isopropanol		%	-0.03	2.48	0.41	2.23

¹Determined on 1/8-inch thick test specimens cured 24 hrs at 25 °C followed by 2 hrs at 100 °C.

²Percent weight gain after immersion for 24 hrs at 25 °C.

Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

Please refer to the Hexion web site for Shelf Life and recommended Storage information.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

Packaging

Available in bulk and drum quantities.

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Contact Information

For product prices, availability, or order placement, please contact customer service:

www.hexion.com/Contacts/

For literature and technical assistance, visit our website at: www.hexion.com

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