

Technical Data Sheet

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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 Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	990-1,020	ASTM D2896
Viscosity at 25°C	cP	350-450	ASTM D2196
Color	Gardner	4	ASTM D1544

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		48	
Density @ 25 °C	lbs/gal	8.5	ASTM D1475
Flash point	°C	>110	ASTM D3278

Appearance		Clear and free of foreign particles
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

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.

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Packaging

Available in bulk and drum quantities.

Contact Information

For product prices, availability, or order placement, call our toll-free customer service number at: 1-877-859-2800

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

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