

Technical Data Sheet

EPIKURE™ Curing Agent 3010

Product Description

EPIKURE™ Curing Agent 3010 is an amidoamine with a low viscosity, low imidazoline content, and dark color. It is based on tall oil fatty acid and polyamines. It is moderately fast-setting and exhibits excellent epoxy resin compatibility

Application Areas/Suggested Uses

- Coal tar epoxy coatings
- Metal and plastic adhesives
- Tooling compounds
- Electrical potting
- Filament winding
- Concrete repair
- High solids primers

Benefits

- Non-critical mix ratios
- Increased filler loading
- Moderate pot life
- Low viscosity

Sales Specifications

Property	Value	Unit	Test Method
Amine Value	375 - 425	g/eq	ASTMD2896
Color	9 max	Gardner	ASTMD1544
Viscosity at 25°C	200 - 500	cP	ASTMD2196

Typical Properties

Property	Value	Unit	Test Method
Appearance	Dark colored liquid		
Equivalent Weight	95		
Mix Ratio EPON™ Resin 828	30 - 60	pbw	
Pounds/Gallon @ 25°C	8.0	lbs/gal	ASTMD1475

Performance Properties

Table 1 / Epoxy Systems Cured with EPIKURE™ Curing Agent 3010

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	Method	Units	Value
EPON Resin 828		pbw	100
EPIKURE Curing Agent 3010		pbw	50

Handling Properties @ 25°C

Initial viscosity		cP	3,600
Pot life, 100 gram mass		minutes	180

Cured State Properties¹

Heat deflection temperature	ASTM D648	°C	43
Tensile strength	ASTM D638	psi	7,790
Tensile elongation at break		%	6.9
Flexural strength	ASTM D790	psi	12,266
Initial flexural modulus, 10 ⁶		psi	0.35
Hardness	Shore D		80

Chemical Resistance²

Water		%	0.19
5% acetic acid		%	1.00
5% sodium hydroxide		%	0.24
50% xylene / 50% isopropanol		%	4.45

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

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

Safety, Storage & Handling

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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.

EPIKURE Curing Agent 3010 should be kept in tightly closed containers in a cool, dry place. Product will absorb moisture and carbon dioxide which may affect viscosity or create foaming when reacted with epoxy resins. This product will have a minimum shelf life of one year if properly stored in unopened containers.

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.

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