

Technical Data Sheet

Re-issued October 2004

EPON™ Resin 8132

Product Description

EPON™ Resin 8132 is a 100% reactive low viscosity liquid bisphenol-A based epoxy resin diluted with an Alkyl glycidyl ether. This resin is specially designed for applications requiring low viscosity, minimum odor and good color.

Application Areas/Suggested Uses

- Adhesives
- Decoupage systems
- Thin-set terrazzo flooring and industrial flooring
- Epoxy crack injection systems
- Exposed aggregate wall matrix
- Wet lay-up laminates

- High solids/low VOC high performance architectural coatings

Sales Specification

Property	Units	Value	Test Method/Standard
Weight per Epoxide	g/eq	195 – 215	ASTM D1652
Viscosity at 25°C	P	5 – 7	ASTM D445
Color ¹	Gardner	1 max.	ASTM D1544

¹ Method D

Typical Properties

Property	Units	Value	Test Method/Standard
Specific Gravity	g/ml	1.1	
Density at 25°C	lb/gal	9.2	ASTM D1475
Flash Point ¹	°F	>240	ASTM D93
Specific Heat	BTU/lb °F	0.45	
Physical Form		Clear Liquid	

--	--	--

¹ Pensky-Martins Closed Cup Method

Processing/How to use

General Information

EPON Resin 8132 can be cured or cross-linked with a variety of curing agents depending on properties desired in the finished product. A few commonly used curing agents, recommended concentrations, curing schedules employed and performance data are displayed in Table 1. The EPON Resin 8132 is also compared with EPON Resins 815 and 813, two other popular 100% reactive diluted liquid epoxy resins.

For additional performance characteristics information covering adhesives and wet lay-up laminating, consult brochure SC: 67, entitled, "EPON Resin Structural Reference Manual".

Performance Properties

Table 1 / Typical properties of cured EPON™ Resin 8132 compared with those of EPON Resin 815 and EPON Resin 8131

	Units	EPON Resin 8132	EPON Resin 815	EPON Resin 813
EPON Resin 8132	pbw	100		
EPON Resin 815	pbw		100	
EPON Resin 813	pbw			100
EPIKURE™ Curing Agent 3234 (TETA)	pbw	12	13	13

Handling Properties

Pot life, 1/2 pint	minutes	136	67	94
Initial viscosity	cP	460	300	240
Cure schedule	hours/°F	4/77+2/302	4/77+2/302	4/77+2/302

Tensile properties, at 25 °C

Ultimate strength	psi	7,800	9,800	9,500
Ultimate Elongation	%	5.3	5.0	2.0
Modulus	ksi	410	500	680

Flexural properties, at 25 °C

Strength	psi	14,000	17,000	20,000
Modulus	ksi	420	510	620

Tg by DSC	°C (°F)	77 (171)	92 (198)	74 (165)
-----------	---------	----------	----------	----------

Chemical Resistance, % weight gain

Acetone, 3 hours at (56 °C)	%	0.5	4.0	7.0
-----------------------------	---	-----	-----	-----

Water, 24 hours at 93 °C	%	3.0	3.0	3.0
--------------------------	---	-----	-----	-----

¹ Reference SC: 1244

FDA Status

EPON Resin 8132 is not listed under the Code of Federal Regulations (21 CFR) therefore, Resolution Performance Products LLC cannot recommend its use for food contact applications.

Safety, Storage & Handling

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

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

EPON Resin 8132 is normally shipped in bulk from 100 °F (43 °C) to 150 °F (66 °C) for ease of handling.

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 Momentive Specialty Chemicals Inc. ("Momentive") products should be directed to your Momentive sales representative, or the nearest Momentive sales office. Information and MSDSs on non-Momentive products should be obtained from the respective manufacturer.

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.momentive.com

® and ™ Licensed trademarks of Momentive Specialty Chemicals Inc.

DISCLAIMER

The information provided herein was believed by Momentive Specialty Chemicals Inc. (“Momentive”) to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Momentive are subject to Momentive’s terms and conditions of sale. **MOMENTIVE MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY MOMENTIVE**, except that the product shall conform to Momentive’s specifications. Nothing contained herein constitutes an offer for the sale of any product.

PDS-4050- (Rev.3/6/2012 11:43:55 AM)