

Technical Data Sheet

EPON™ Resin 1001-K-65

Product Description

EPON™ Resin 1001-K-65 is a 65% solids solution of EPON Resin 1001F-type epoxy resin in tertiary-butyl acetate solvent (TBAC). The EPON Resin 1001F is derived from Bisphenol-A and epichlorohydrin. Systems based on EPON Resin 1001-K-65 can be formulated to have superior chemical resistance, corrosion resistance, and low color. A wide variety of curing agents can be used with EPON 1001-K-65 including aliphatic amines, amine adducts and polyamidoamines.

TBAC solvent is VOC-exempt as well as non-HAPS. This means that EPON Resin 1001-K-65 epoxy solution is zero VOC¹ and non-HAPs². This offers the coatings formulator a unique opportunity to make lower VOC coatings. Additionally, EPON Resin 1001-K-65 is a relatively low viscosity epoxy solution offering easier handling and coating preparation.

The VOC-exempt status of TBAC was finalized in December 2004, via final rule from the U.S. EPA. State and local VOC definitions have generally been updated and formulators should verify that these match the EPA ruling.

Application Areas/Suggested Uses

Low VOC Coatings for:

- Marine and Industrial Maintenance coatings
- Masonry and concrete coatings
- Metal finishing coatings

Benefits

- Epoxy resin solution which is VOC-exempt and also non-HAP.
- Balanced evaporation rate since tertiary-butyl acetate (TBAC) is an intermediate evaporating solvent
- Easily handled solution that is readily thinned or reduced with other organic solvents (e.g., propylene glycol methyl ether, Aromatic 100, methyl n-amyl ketone).
- Crystal clear solution requiring no additional filtration.

Sales Specifications

Property	Value	Unit	Test Method
Brookfield Viscosity at 25°C	1500 - 4500	cP	ASTMD-2196
Color	2 max.	Gardner	ASTMD1544
Epoxide Equivalent Weight	450 - 550	g/eq	ASTMD-1652
Solids	64 - 66	% wt.	SRC 09Q16

Typical Properties

Property	Value	Unit	Test Method
Density at 25°C	8.75 - 8.95	lb/gal	ASTMD1475
Flash Point Setflash	40	°F	ASTMD3278

¹ VOC is the acronym for volatile organic compound as defined by the U.S. 40CFR51.100 (s).

² HAP is the acronym for hazardous air pollutant as defined by the U.S. Clean Air Act Amendments of 1990.

EPON Resin 1001-K-65
<https://www.hexion.com/en-US/product/epon-resin-1001-k-65>

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Processing/How to use

General Information

Generic Name: epoxy resin solution

Structural formula, base resin: (note for EPON Resin 1001F, n = ~2)

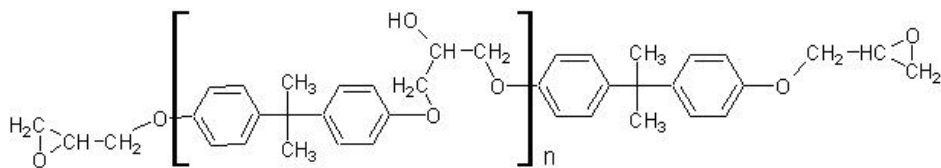
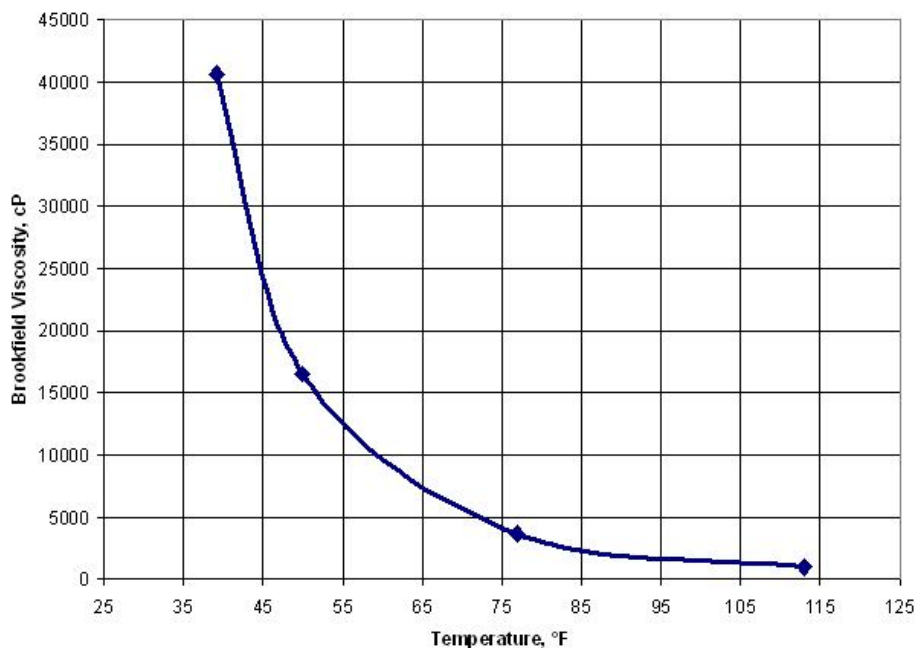


Figure 1 / EPON™ Resin 1001-K-65 Temperature versus Viscosity



Safety, Storage & Handling

Please refer to the MSDS for 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.

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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