

Technical Data Sheet

EPIKOTE™ Resin 04976

Product Description

EPIKOTE Resin 04976 is a medium viscosity liquid epoxy resin produced from bisphenol A resin and epichlorohydrin. It contains no diluent. EPIKOTE Resin 04976 provides good pigment wetting and good resistance to filler settling and a high level of mechanical and chemical resistance properties in cured state. However, as an unmodified pure bisphenol A resin, EPIKOTE Resin 04976 is prone to crystallise on storage, particularly in cold conditions (see bulletin EK 1.5.11 for a description of the laboratory test method used to determine the crystallisation tendency of EPIKOTE Resins).

Application Areas/Suggested Uses

Electrical and electronic industries (potting, casting, impregnating). Building and civil engineering industries (floorings, adhesives, mortars, grouts). Filament winding for composites. Solvent free and high-solids coatings.

Benefits

- Medium viscosity
- Good pigment wetting
- Good resistance to pigment settling
- Imparts high mechanical performance
- Imparts good chemical resistance

Sales Specifications

Property	Value	Unit	Test Method
Color	100	Pt-Co	ASTMD1209
Epoxy Group Content	5260 - 5420	mmol/kg	SMS 2026
Viscosity at 25°C	12 - 14	Pa.s	ASTMD445

Typical Properties

EPIKOTE Resin 04976

<https://www.hexion.com/en-US/product/epikote-resin-04976>

Generated: May 28, 2021

Issue Date:

Revision:

© and ™ Licensed trademarks of Hexion Inc.

The information provided herein was believed by Hexion Inc. ("Hexion") 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 Hexion are subject to Hexion's terms and conditions of sale. **HEXION 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 HEXION**, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

Property	Value	Unit	Test Method
Density at 25°C	1.16	kg/L	ASTMD4052
Epoxy Molar Mass	184 - 190	g/equivalent	SMS 2026
Flash Point (PMCC)	>150	°C	ASTMD93
Viscosity 60°C	0.24	Pa.s	
Viscosity 70°C	0.12	Pa.s	
Viscosity 20°C	32	Pa.s	
Viscosity 40°C	1.5	Pa.s	
Viscosity 30°C	6	Pa.s	
Viscosity 50°C	0.55	Pa.s	

Safety, Storage & Handling

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

EPIKOTE Resin 04976 should be stored at room temperature in conditions such that moisture is excluded, in the original containers kept tightly closed. Under these conditions the shelf life should be a minimum of three years from date of certification.

If EPIKOTE Resin 04976 develops haziness or crystallises on storage, this can be dispersed and the resin restored to its original condition by warming to 55 – 65°C, with stirring.

EPIKOTE Resin 04976

<https://www.hexion.com/en-US/product/epikote-resin-04976>

Generated: May 28, 2021

Issue Date:

Revision:

® and ™ Licensed trademarks of Hexion Inc.

The information provided herein was believed by Hexion Inc. ("Hexion") 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 Hexion are subject to Hexion's terms and conditions of sale. **HEXION 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 HEXION**, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.