



## Technical Data Sheet

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### EPOXY Resin

#### Product Description

**EPOXY Resin** 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 <sup>1</sup>	Gardner	1 max.	ASTM D1544

<sup>1</sup> 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 <sup>1</sup>	°F	>240	ASTM D93
Specific Heat	BTU/lb °F	0.45	
Physical Form		Clear Liquid	

## EPOXY Resin

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<sup>1</sup> Pensky-Martins Closed Cup Method

### Processing/How to use

#### General Information

**EPOXY Resin** 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.

### Performance Properties

Table 1 / Typical properties of cured EPOXY Resin

	Units	EPOXY Resin
EPOXY Resin	pbw	100
Handling Properties		
Pot life, 1/2 pint	minutes	136
Initial viscosity	cP	460
Cure schedule	hours/°F	4/77+2/302
Tensile properties, at 25 °C		
Ultimate strength	psi	7,800
Ultimate Elongation	%	5.3
Modulus	ksi	410
Flexural properties, at 25 °C		
Strength	psi	14,000
Modulus	ksi	420

## EPOXY Resin

Tg by DSC	°C (°F)	
Chemical Resistance, % weight gain		
Acetone, 3 hours at (56 °C)	%	0.5
Water, 24 hours at 93 °C	%	3.0

<sup>1</sup> Reference SC: 1244

### FDA Status

**EPOXY Resin** 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.

**EPOXY Resin** 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 MASTER PACK products should be directed to your MASTER PACK sales representative, or the nearest MASTER PACK sales office.

### Packaging

Available in bulk and drum quantities.

### Contact Information

For product prices, availability, or order placement, please contact customer service: [sales@masterpkg.com](mailto:sales@masterpkg.com)

For literature and technical assistance, visit our website at: [www.masterpkg.com](http://www.masterpkg.com)

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