

Technical Data Sheet

EPON™ Resin 2014

Product Description

EPON™ Resin 2014 is a fusion derived solid bisphenol A/epichlorohydrin epoxy resin that is blended with an epoxy phenolic novolac resin to yield a product designed specifically for functional and decorative epoxy powder coating applications. This resin is suitable for applications such as high performance finishes for automotive parts, electrical insulation coatings, appliance primers, and corrosion resistant pipe and concrete reinforcing bar coatings.

Benefits

- Extremely clean. This is achieved by incorporating special process techniques that include multiple filtration of the products.
- Consistent cure response with a wide variety of curing agents.
- Extremely low levels of hydrolyzable chlorine.
- Uniform properties from lot to lot.

Sales Specifications

Property	Value	Unit	Test Method
Color	100	Pt-Co	ASTMD1209
Viscosity at 25°C	35 - 75	cP	ASTMD1209
Weight per Epoxide	750 - 850	g/eq	ASTMD1652

Typical Properties

Property	Value	Unit	Test Method
Approximate Functionality	2.5		
Density @ 25°C	1.19	grams/ml	
Glass Transition Point	60 - 65	°C	DSC
Hydrolysable chlorine	0.03 max.	% wt.	ASTMD1726
Melt Viscosity at 150°C	200 - 600	P	ASTMD2196
Mettler Softening Point	100 - 120	°C	ASTMD-3461
Sodium Content	<5	ppm	
Water	<0.3	% wt.	

Processing/How to use

Benefits

Powder coatings formulated with EPON Resin 2014 provide all of the benefits traditionally associated with epoxy coatings plus two additional features. Like EPON Resin 2004 type products, EPON Resin 2014 exhibits exceptionally low levels of hydrolyzable chlorine, making it suitable for use in electrical insulation coatings. Also, the addition of the epoxy phenolic novolac resin promotes superior chemical and corrosion resistance.

EPON Resin 2014
<https://www.hexion.com/en-US/product/epon-resin-2014>

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EPON Resin 2014 can be used in thin film decorative powder coatings where a tough, yet attractive, surface is desired. As with all of our powder type resins, the low concentration of particulates and low moisture content of these products aid in obtaining a smooth coating free of surface defects.

Identification and Classification

Chemical Abstract Service Registry Number: No numbers are available because EPON Resin 2014 is a mixture. The components, can be found in the TSCA inventory and are listed as follows:

Base epoxy resin: CAS No. 25036-25-3

Epoxy phenolic novolac resin: CAS No. 28064-14-4

FDA Status

Paragraph 175.300 in Title 21 of the Code of Federal Regulations permits and regulates the use of epoxy resins such as cured EPON Resin 2014 as indirect food additives in food contact applications.

Curing agents and catalysts for EPON Resin coating systems are also regulated under several sections of Title 21, for example 175.300 and 177.2280, and are subject to the limitations imposed by these sections and the general requirements of good manufacturing practices. Consult these sections for specific examples.

Safety, Storage & Handling

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.

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