

D.E.R. 663U

Solid Epoxy Resin

Description

D.E.R.* 663U solid epoxy resin is a low molecular weight reaction product of liquid epoxy resin and bisphenol-A.

Introduction

D.E.R. 663U solid epoxy resin is a low molecular weight, solid epoxy resin developed mainly for use in powder coatings. It can be incorporated in both pure epoxy and epoxy/ polyester systems where the relationship between its melt viscosity and softening point properties ensures the production of homogeneous powders with good gloss, excellent flexibility and smoothness, and good storage stability. D.E.R. 663U resin can also be used in epoxy ester applications, for example, in industrial or automotive coatings.

Typical Applications

This product is suitable for use in powder coating applications.

Safety and Handling

The Dow Chemical Company provides its customers with a product specific Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, storage, use and disposal information. Dow strongly encourages its customers to review the MSDS on its products and other materials prior to their use. For further handling information, consult the Dow brochure entitled, *DOW Epoxy Resins Product Stewardship Manual, Safe Handling and Storage*, Form No. 296-00312-898.

Product Stewardship

The Dow Chemical Company has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis of our Product Stewardship philosophy by which we assess the health and environmental information on our products and then

Typical Properties¹

Epoxide Equivalent Weight, (g/eq)	730 - 820	ASTM D-1652
Viscosity @ 25°C (77°F), (mPa.s)	370 - 550 ²	ASTM D-445
Melt Viscosity @ 150°C, (mPa.s)	2000 - 4000	ASTM D-445
Softening Point, (°C)	92 - 102	RPM 108-C
Color, Platinum Cobalt	100 Max. ²	ASTM D-1209
Shelf Life, (Months)	24	

¹ Typical properties; not to be construed as specifications

² 40 wt % in diethylene glycol monobutyl ether

take the appropriate steps to protect employee and public health and the environment. The Dow Chemical Company has enduring commitments to Responsible Care® in the management of chemicals worldwide. Our Product Stewardship program rests with every individual involved with Dow products from the initial concept and research to the manufacture, sale, distribution, and disposal of each product.

Customer Notice

Dow encourages its customers and potential users of Dow products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that Dow products are not used in ways for which they were not intended or tested, Dow personnel are available to assist customers in dealing with ecological and product safety considerations.

Your Dow sales representative can arrange for the proper contacts. Dow literature, including Material Safety Data Sheets should be consulted prior to the use of Dow products.

Food Contact Statement

When properly formulated and cured for food contact applications, this resin will comply with the U.S. Food, Drugs and Cosmetics Act as amended under Food Additive Regulation 21 CFR 175.300. This use is subject to good manufacturing practices and limita-

tions specified in each regulation, which should be consulted for complete details.

If your applications include food contact requirements, please contact your Dow representative for further information and forthcoming EC regulations. Also consult the Dow brochure entitled, *Food Additive Status for Epoxy Resins, Curing Agents and Epoxy Novolac Resins*, Form No. 296-01425.

Regulatory Status

This solid epoxy resin is regarded as a polymer according to Council Directive 92/32/EEC of 30 April 1992; the 7th Amendment of Council Directive 67/548/EEC, and is, therefore, exempt from the European Inventory of Existing Chemical Substances (EINECS). In addition, Dow confirms that the chemicals and intentional additives which form the basis of this product are listed on EINECS. With respect to China, please note that there is currently no formal Chinese Chemical Inventory legislation in place. The Chinese Authorities are in the process of drafting such legislation. There is in place an "Informal 1997 PRC Chemical Inventory List" and above mentioned CAS Reg. Nr. are listed on it.

For more information on the regulatory status of this product, please refer to the Material Safety Data Sheet (MSDS) or SDS for this product.

Chemical Inventory List

CAS Number*		25036-25-3
Europe	EINECS	Polymer
United States	TSCA	25036-25-3
Canada	DSL	25036-25-3
Australia	AICS	25036-25-3
Japan	MITI	7-1283
Korea	KECL	KE-24070
Philippines	PICCS	25036-25-3
China	Informal 1997 PRC Inventory	25036-25-3

* Please refer to the Material Safety Data Sheet (MSDS) or SDS for this product to ensure this CAS number is consistent with the product(s) you use.

For additional information:

In the U.S. and Canada,
contact The Dow Customer Information Group at:
1-800-441-4369 or 989-832-1426
Fax: 989-832-1465

In Mexico,
Call 95-800-441-4369 (Toll Free) or
52-5-2014718 (Outside Mexico)

In Latin America,
contact The Dow Chemical Service Center at:
In Argentina, call 54 11 4390329
In Brazil, call 55 11 51889367

In the Pacific,
contact The Dow Customer Information Group at:
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Fax: +800-7779-7779 (Toll Free) or +60-3-7958-5598

In Europe, Middle East and Africa,
contact The Dow Customer Information Group at:
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*Toll Free from Austria, Belgium, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and The United Kingdom.

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Email address: <http://www.dow.com/assistance/thoughts.htm>

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Dow Plastics

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