

Technical Data Sheet

EPON™ Resin 872-X-75

Product Description

EPON™ Resin 872-X-75 is a 75% by weight solution of EPON 872 in xylene. EPON 872 is a chemically-modified BPA based epoxy resin that is semi-solid at room temperature. Systems using EPON Resin 872-X-75 can be combined with other EPON Resins, HELOXY™ Modifiers, or used as the sole resin to provide varying degrees of flexibility and toughness. EPON Resin 872-X-75 can be used with most curing agent types. EPON Resin 872-X-75 provides cured resin toughness and flexibility in comparison to liquid grade BPA epoxies, but reduces elevated temperature performance. EPON Resin 872-X-75 is especially useful in applications requiring extra thermal shock or impact resistance.

Benefits

- May be blended with other epoxy resins.
- Imparts good water resistance.
- Low viscosity epoxy resin solution in xylene.
- Designed for solvent-based coating systems.
- Improved toughness and flexibility relative to unmodified liquid epoxies

Sales Specifications

Property	Value	Unit	Test Method
Color	6 max.	Gardner	ASTM D1544
Epoxide Equivalent Weight	625 - 700	g/eq	ASTM D1652
Solids	74 - 76	% by Weight	SRC 09Q16
Viscosity at 25°C	20 - 28	P	ASTM D445

¹ 75% solution in xylene

Typical Properties

Property	Value	Unit	Test Method
Density of E872 Solids at 25°C	9.0	lb/gal	ASTM D1475
Solution Density at 25°C	8.4	lb/gal	ASTM D1475

Processing/How to use

EPON Resin 872-X-75
<https://www.hexion.com/en-US/product/epon-resin-872-x-75>

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General Information

A wide variety of curing agents can be used with EPON Resin 872-X-75; such as, aliphatic amines, amidoamines, amine adducts, polyamides, and cycloaliphatic amines. EPON Resin 872-X-75 solution is especially suitable for the formulation of coatings due to its inherent toughness and flexibility. Other end-use applications are also possible.

In coating applications, EPON Resin 872-X-75 may be initially incompatible with the selected curing agent. As the chemical reaction between the two proceeds, compatibility with each other will develop with time. Applying the system too quickly after mixing can result in "blushing" or other film defects. Blushing can be prevented by using an induction period to allow compatibility to develop before applying the coating. Required induction periods will differ with each curing agent but can range from 0 to 60 minutes.

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, visit the [Contact Us](#) section of our web site

For literature and technical assistance, visit our website at: www.hexion.com/epoxy

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