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Advanced Materials

Araldite® MY 0510 EG#

Low Viscosity Trifunctional Epoxy Resin

DATA SHEET

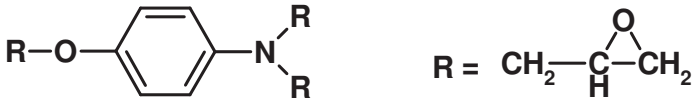
GENERAL

Araldite® MY 0510 EG is a very low viscosity, high functionality amine-based, high purity resin with relatively good storage stability. It cures very rapidly resulting in products having exceptionally high heat deflection temperatures. **This grade is particularly suited for electronic applications where Total Chlorine Content needs to be controlled.**

CHEMICAL DESCRIPTION

Triglycidylized para-aminophenol

CHEMICAL STRUCTURE



APPLICATIONS

- Adhesives
- Laminating
- Resin Modifier
- Coatings
- Composites
- Electronic

ADVANTAGES

- Low viscosity
- Fast reacting
- Excellent chemical resistance
- Good mechanical strength
- Excellent thermal properties
- Outstanding corrosion resistance

KEY DATA

Specified key data

Appearance	**Clear, amber-brown liquid**
Color Index (GARNER, ISO 4630-1)	**0.0 - 1.1**
Epoxide value W.P.E. (ISO 3001)	**95 – 106 g/Eq**
Viscosity dynamic @ 25 °C (ISO 12058-1)	**550 – 850 mPa.s**
Total chlorine (AMTM 116)	**0 – 5500 ppm**
Hydrolysable chlorine (PF-C0195)	**0 – 2000 ppm**
Water Content (ISO 760)	**0.00 - 0.20 %**

Specified key data are individually checked throughout and guaranteed.

Typical key data

Flash Point, closed cup (Pensky-Martens,DIN 51758)	>100 °C
Density @ 25 °C (ASTM D3505)	1.21 - 1.23 g/cm^3

Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.

In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

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FORMULATIONS

Araldite® MY 0510 EG is a particularly effective resin in a wide variety of formulating applications including adhesives, laminating systems, etc. It can be used as a viscosity modifier and also with slow reactivity resins to boost their rate of cure; however, cautior must be exercised in the selection of hardeners and cure conditions because of its rapid cure characteristics. Even moderate amounts, when cured with aliphatic amines, can develop sufficient exotherm to cause charring and smoke evolution. This can also occur if aromatic amine hardened systems are gelled at excessively high temperatures or if catalysts, such as boron trifluoride monoethylamine, are used alone or in conjunction with aromatic hardeners.

PACKAGING & STORAGE

Araldite® MY 0510 EG must be stored between 2 and 8 °C in original sealed containers. Storage at higher temperatures may adversely affect properties. Maximum temperature this product should be subjected to while thawing for use should not exceed 35 °C. Never store Araldite® MY 0510 EG in warm areas, particularly near heat sources or hot equipment, or even in direct sunlight, because violent exothermic reaction or explosion may result.

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. To facilitate handling of Araldite® MY 0510 EG as a workable liquid, warm the container gradually by letting it stand in an area at room temperature (approximately 23 °C) prior to use. Never accelerate warming by using hot ovens, band heaters, hot plates, open flames, or any means, which could cause a “hot spot”. Such practices may initiate violent exothermic reaction or explosion. Contamination, especially by acidic or basic substances, may also start a violent exothermic reaction and must be avoided.

For additional information please consult the corresponding product safety data sheets.

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