

## Description

Lapox ARD-56 is a low viscosity, aliphatic diepoxide reactive diluent based on neopentyl glycol. It is compatible with all types of epoxy resins in any proportion. Resins diluted with this can be suitably cured by epoxy curing agents for variety of applications. Higher proportion imparts flexibility in cured system and hence affects glass transition temperature significantly.

## Chemical structure



## Advantages

- Improves wetting and processability
- Provides high filler loading
- Provides very good flexibility
- Reduces viscosity while maintaining the cured state properties

## Applications

- Adhesives
- Civil engineering and flooring
- Electronic encapsulation
- Impregnation
- Laminating
- Potting and tooling

## Typical specifications

| Properties                    | Unit  | Test method | Values       |
|-------------------------------|-------|-------------|--------------|
| Appearance                    | -     | Visual      | Clear liquid |
| Colour                        | GS    | ASTM D1544  | Max 1        |
| Epoxy value                   | Eq/kg | ASTM D1652  | 6.9 - 8.0    |
| Epoxy equivalent weight (EEW) | g/eq  | ASTM D1652  | 125 - 145    |
| Viscosity at 25°C             | m Pas | ASTM D2196  | 12 - 18      |
| Hydrolysable chlorine         | %     | ASTM D1726  | Max 0.1      |

## Packaging

Lapox ARD-56 is available in 200 kg MS drums and 1,000 kg IBC. Other packing may be considered on request.

## Storage and handling

Lapox ARD-56 should be stored in cool and dry place, preferably in the sealed container and should not be exposed to direct sunlight. This product has a shelf life of 2 years if stored in its original container between 2°C and 40°C away from humidity and excessive heat.

## Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, the reactive diluent should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox ARD-56 for detailed safety instructions.

# LAPOX<sup>®</sup> ARD-56

Technical Data Sheet | Polymers Business



## Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

## Contact

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## Note

Lapox<sup>®</sup> is a registered trademark of Atul Ltd.

## Manufacturing site

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