

Description Lapox ARCH-12 is a low viscosity, cycloaliphatic epoxy resin suitable for outdoor application.

Advantages Components cured appropriately with suitable hardener are able to provide excellent performance properties with good thermal shock resistance in outdoor humid weather.

Applications Suitable for outdoor electrical insulation in difficult climatic conditions for medium and high voltage applications: switchgear parts, line post and pin insulators and instrument transformers, bushings etc.

Processing Automatic pressure gelation (APG)
Conventional vacuum casting (CVC)

Typical specifications

Properties	Unit	Test method	Values
Description	-	Visual	Clear liquid
Colour	GS	ASTM D1544	Max 2
Viscosity at 25°C	m Pas	ASTM D2196	350 - 750
Epoxy content	Eq/kg	ASTM D1652	5.0 - 5.5
Specific gravity at 25°C	-	ASTM D792	1.18 - 1.22
Flash point	°C	ISO 2719	85
Vapour pressure at 20°C	Pa	ASTM D323	< 0.01
Gel time at 120°C ¹	Minutes	DIN 16945	27
Tg by DSC ^{1,2}	°C	ISO 11357-2	75 - 85
Shelf-life	Years	-	2

¹Properties checked in combination as resin Lapox ARCH-11 (100 pbw), hardener Lapox AH-214 (85 pbw), accelerator Lapox AC-13 (0.6) and filler (370 pbw).

²Curing cycle followed: 2 hours at 100°C + 16 hours at 140°C.

Packaging Lapox ARCH-12 is available in 30 kg and 110 kg carboys and 200 kg MS drums. Other packing may be considered on request.

Storage and handling Lapox ARCH-12 should be stored in a cool and dry place, preferably in an original sealed container and should not be exposed to direct sunlight. This product can be stored at room temperature (RT), away from humidity and excessive heat. Under these conditions, the shelf-life will correspond to the time stated in specification table in the TDS. Partly used containers should be closed immediately after use. It is recommended to use resin only when they are clear and free from cloudiness. Please refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

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

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[®] is a registered trademark of Atul Ltd.

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