LAPOX® AH-667

Technical Data Sheet | Polymers Business

Description

Lapox AH-667 is a viscous liquid aromatic amine hardener having 60% 4,4'-diamino diphenyl methane and 40% oligomers. It is available in brown viscous liquid at room temperature, which can be made more flowable by heating at 70°C to 80°C. Basic liquid epoxy resin (EEW:190) cured with stoichiometric ratio of Lapox AH-667 provides glass transition temperature (Tg) over 160°C along with excellent combination of mechanical, electrical and thermal properties.

Advantages

Excellent electrical insulation properties
High chemical resistance
High glass transition temperature
Highly soluble in acetone and methyl ethyl ketone
Provide stable 'B' Stage

Applications

Components for high chemical resistance
Electrical components
General engineering components
Structural composites

Processing

Filament winding and pultrusion
Lamination and castings
Prepreg

Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Brown, viscous liquid
Colour	GS	ASTM D1544	Max 15
Aniline content	%	HPLC	Max 0.1
Viscosity at 60°C	m Pas	ASTM D2196	1,400 - 2,000
Gel time at 80°C[1], 12 g	Minutes	DIN 16945	60 - 70
AHEW	g/eq	-	51
Recommended ratio	w/w	-	28
Glass transition temperature[2]	°C	DSC	Min 160

[1]Gel time of 12 g mix mass in thermostatically controlled gel timer. Mixing ratio of Lapox L-12: Lapox AH-667 is 100:28 w/w
[2]Post cure at 80°C/3 hours followed by 150°C/4 hours

Packaging

Lapox AH-667 is available in 200 kg MS | HDPE drums and 1,000 kg IBC. Other packing may be considered on request.

Storage and handling

Lapox AH-667 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf-life of 1 year, if stored in its original container between 18°C and 25°C away from humidity and excessive heat. Please refer to the Safety Data Sheet (SDS) for detailed instructions 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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