## LAPOX<sup>®</sup> ARA-32 | AH-732

Technical Data Sheet | Polymers Business



Two component	Lapox ARA-32 100 pt	W		
slow curing structural epoxy system	Lapox AH-732 45 pt	W		
Description	Resin Lapox ARA-32 and harder components to join various surfa adhesive system is prefilled with g and improved fatigue on appropria ideal for non-sagging and filling th	ces including lass fiber to ac ately prepared	FRP, metal, glass, a hieve higher lower exe surfaces. Physical st	nd wood etc. This ep otherm, cohesive stren ate of adhesive make
Applications	Adhesive can be used to bond var for joining wind mill blades, boats			ometry. It is recommend
		in 10°C to 50	°C Appropriately auro	
Processing	Recommended process conditions between -40°C to 80°C.		C. Appropriately cure	ed adhesive performs b
Processing Typical specifications	between -40°C to 80°C.			
Typical	between -40°C to 80°C.	Unit	Test method	Values
Typical	between -40°C to 80°C.			
Typical	between -40°C to 80°C. Lapox ARA-32 Properties		Test method	Values Light-yellow,
Typical	between -40°C to 80°C. Lapox ARA-32 Properties Appearance	Unit -	<b>Test method</b> Visual	Values Light-yellow, thixotropic paste
Typical	between -40°C to 80°C. Lapox ARA-32 Properties Appearance Density at 25°C	Unit - g/cm <sup>3</sup> m Pas	Test method Visual ISO 1183 ASTM D2196	Values Light-yellow, thixotropic paste 1.2 - 1.3 30 - 100
Typical	between -40°C to 80°C.          Lapox ARA-32         Properties         Appearance         Density at 25°C         Viscosity at 25°C by rheometer <sup>1</sup>	Unit - g/cm <sup>3</sup> m Pas	Test method Visual ISO 1183 ASTM D2196	Values Light-yellow, thixotropic paste 1.2 - 1.3 30 - 100
Typical	between -40°C to 80°C. Lapox ARA-32 Properties Appearance Density at 25°C Viscosity at 25°C by rheometer <sup>1</sup> <sup>1</sup> Viscosity by rheometer at 25°C, plate	Unit - g/cm <sup>3</sup> m Pas	Test method Visual ISO 1183 ASTM D2196	Values Light-yellow, thixotropic paste 1.2 - 1.3 30 - 100
Typical	between -40°C to 80°C. Lapox ARA-32 Properties Appearance Density at 25°C Viscosity at 25°C by rheometer <sup>1</sup> <sup>1</sup> Viscosity by rheometer at 25°C, plate Lapox AH-732	Unit - g/cm <sup>3</sup> m Pas	Test method Visual ISO 1183 ASTM D2196 eter, gap 0.5 mm, 25°C,	Values Light-yellow, thixotropic paste 1.2 - 1.3 30 - 100 shear rate 100 s-1
Typical	between -40°C to 80°C. Lapox ARA-32 Properties Appearance Density at 25°C Viscosity at 25°C by rheometer <sup>1</sup> <sup>1</sup> Viscosity by rheometer at 25°C, plate Lapox AH-732 Properties	Unit - g/cm <sup>3</sup> m Pas	Test method Visual ISO 1183 ASTM D2196 eter, gap 0.5 mm, 25°C, Test method	Values Light-yellow, thixotropic paste 1.2 - 1.3 30 - 100 shear rate 100 s-1 Values

Processing
properties

Properties	Unit	Test method	Values
Mixing ratio Resin : Hardener	-	Visual	100 : 45 pbw 100 : 50 pbv
Pot life at 30°C	Minutes	ASTM D2471	15 - 45
Curing schedule	°C / hours	-	75°C / 8 hours

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Resin and hardener should be mixed thoroughly before use from bottom and side walls. Colour of the components will help in visual identification of unmixed area. For good mixing of adhesive, mixing machine is essential. Mix between temperatures of 20°C to 35°C. Maintain surface temperature less than 35°C.

## Typical properties of neat cured system

Curing schedule: 75°C / 8 hours Determined on standard test specimen at 25°C

Properties	Unit	Test method	Values
Tensile strength	MPa	ISO 527	50 - 60
Elongation at break	%	ISO 527	Min 1.5
Elastic modulus in tension	GPa	ISO 527	Min 4.5
Glass transition temperature (DSC)	°C	ISO 11357 - 2	80 - 90
Tensile lap shear for 3 mm bond thickness GRE - GRE	MPa	ISO 4587	12 - 18
Tensile shear strength for 1 mm bond thickness GRE - GRE	MPa	ISO 4587	18 - 25

Packaging Lapox ARA-32 and Lapox AH-732 is available in 30 kg, 110 kg and 240 kg carboys. Other packing may be considered on request.

- Storage and handling Lapox ARA-32 and Lapox AH-732 have shelf-life of 2 years if stored in their original sealed containers. Resin and hardener may crystallise if stored below 15°C. Crystallisation may be reversed completely by heating the material between 60°C and 70°C. It is recommended to use resin and hardener only when they are clear and free from cloudiness. Both resin and hardener may cause irritation to sensitive skins. If contact does occur to such operators then the resin and hardener should be washed off immediately with soap and warm water. 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 E-mail: polymers@atul.co.in Website: www.atul.co.in
- **Note** Lapox<sup>®</sup> is a registered trademark of Atul Ltd.

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