LAPOX[®] ARA-32 | AH-734

Technical Data Sheet | Polymers Business



Two component		400						
Two component slow curing	Lapox ARA-32	100	pbw					
structural epoxy system	Lapox AH-734	45	pbw					
Description	components to joir adhesive system is and improved fatig	n various s prefilled w ue on appi	surfaces includi vith glass fiber to ropriately prepa	ng FRP, metal, glass achieve higher lower	xotropic structural adhesiv , and wood etc. This epox exotherm, cohesive strengt state of adhesive make thi I surfaces.			
Applications	Adhesive can be used to bond various substrates of any size and geometry. It is recommended for joining wind mill blades, boats parts, sporting goods etc.							
Processing	Recommended pro between -40°C to 8		itions is 10°C to	50°C. Appropriately c	ured adhesive performs bes			
Typical specifications	Lapox ARA-32							
	Properties		Unit	Test method	Values			
	Appearance		-	Visual	Light-yellow, thixotropic paste			
	Density at 25°C		g/cm ³	ISO 1183	1.2 - 1.3			
	Viscosity at 25°C by rheometer ¹		eter ¹ m Pas	ASTM D2196	30 - 100			
	¹ Viscosity by rheometer Lapox AH-734 Properties	at 25°C, plat	e-to-plate rheomete	r, gap 0.5 mm, 25°C, shear r Test method	Values			
	Appearance		-	Visual	Blue thixotropic paste			
	Density at 25°C		g/cm ³	ISO 1183	1.05 - 1.15			
	Viscosity at 25°C	Viscosity at 25°C by rheometer ¹		ASTM D2196	10 - 20			
	¹ Viscosity by rheometer	at 25°C, plate	e-to-plate rheometer	, gap 0.5 mm, 25°C, shear ra	ate 100 s-1			
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	70 - 100			
	Curing schedule		°C / hours	-	75°C / 8 hours			

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Curing schedule: 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

at cured m	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 1mm bond thickness GRE - GRE	MPa	ISO 4587	18 - 25				

Packaging Lapox ARA-32 and Lapox AH-734 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-734 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[®] is a registered trademark of Atul Ltd.

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