LAPOX[®] ARL-135 | AH-336

Technical Data Sheet | Polymers Business



Ambient cure	Lapox ARL-135	100	pbw			
epoxy system for hand lay-up	Lapox AH-336	32	pbw			
nana lay-up						
Description	and Lapox AH-336 performance applica system ensures fast polyamide and allow consistency in perfor an excellent handling post curing at temper	is a m tions in and co vs com rmance g stren rature c	nodified p static an mplete in ponents properti- gth. The of more th	ooly nd c npre to l es. op	polyamine b ad dynamic I apregnation to be produ es. The com optimum pr an 50°C. Fu	aminating resin designed polyamine based harder ad dynamic load condition pregnation of reinforcing to be produced by vario es. The components cur optimum properties, how an 50°C. Fully cured con en 60°C and 80°C tempe
Applications	Automotive Electrical Gliders Motor gliders and pla Moulds and tools Other industrial and l Recreational and spo Ships and boats Wind turbine blades	house l		or	oonents.	oonents.
Processing Typical specifications	Contact pressure mo Filament winding Pultrusion Resin infusion (RI) Resin transfer mould Vacuum and pressur Wet lay-up lamination	ling (RT	ΓM)	ŝ	÷S	⊰S
specifications	Properties		Unit		Те	Test method
	Appearance		-			Visual
	Colour		GS			ASTM D1544
	Viscosity at 25°C		m Pas			ASTM D2196
	Epoxy content		Eq/kg			ASTM D1652
	Specific gravity at 2	25°C	-			ASTM D7032
	Lapox AH-336	~ *				
	Properties		Uni	it	it Te	t Test method
	Appearance		-		Vis	Visual

Appearance	-	Visual	Clear, transparent liquid
Colour	GS	ASTM D1544	Max 4
Viscosity at 25°C	m Pas	ASTM D2196	20 - 100
Specific gravity at 25°C	-	ASTM D792	0.93 - 0.99

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Processing	Properties	Unit		Test	method	Valu	les		
properties	Mixing ratio (by weight)	-		Visual		Resin: 100 Hardener: 32			
	Initial mix viscosity	m Pas		ASTM D2196		300 - 700 / 25°C			
	Pot life	Minutes	;	ASTM D2471		120 - 160 at 20°C 80 - 100 at 25°C			
	Curing shrinkage	%		-		1.6			
	Curing schedule	°C / hou	urs	-			C / 24 hours + C / 8 hours		
Typical properties of neat cured system	Curing schedule: 25°C / 24 hours + 70°C / 8 hours Determined on standard test specimen at 25°C								
	Properties		Unit		Test method		Values		
	Tensile strength		m Pa		ISO 527		60 - 70		
	Elongation at break		%		ISO 527		4 - 7		
	Elastic modulus in tension		g Pa		ISO 527		2.8 - 3.4		
	Flexural strength		m Pa		ISO 178		115 - 130		
	Elastic modulus in flexural		3		ISO 178		3.0 - 3.6		
	Compressive strength			m Pa ISO			120 - 140		
	Hardness Glass transition temperature (DSC) Water Absorption 25°C / 24 hours				ISO 868 ISO 11357 - 2		80 - 90		
					ISO 11357 - 2	2	75 - 85 Max 0.5		
Packaging	Lapox ARL-135 is available in 30 kg, 110 kg and 240 kg carboys. Lapox AH-336 is available in 1 kg HDPE bottles. Other packing may be considered on request.								
Storage and handling	Lapox ARL-135 and hardener Lapox AH-336 have shelf-life up to 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 then it 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.								

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Note



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