LAPOX[®] ARL-135 | AH-335

Technical Data Sheet | Polymers Business



mbient cure	Lapox ARL-135	100	pbw
boxy system for and lay-up	Lapox AH-335	32	pbw
scription	Lapox ARL-135 is a and Lapox AH-335 performance applica system ensures fast polyamide and allow consistency in perfor	is a mo itions in s and compositions and compositions and compositions and compositions and the second seco	dified polyam tatic and dyn plete impregn onents to be
	The components cu optimum properties, 50°C. Fully cured co 60°C and 80°C temp	however, mponents	will only be ob
olications	Automotive Electrical Gliders Moulds and tools Motor gliders and pla Other industrial and Recreational and sp Ships and boats Wind turbine blades	house hol	
ssing	Contact pressure mo Filament winding Pultrusion Resin infusion (RI) Resin transfer mould Vacuum and pressu Wet lay-up laminatio	ding (RTM re bag tec	
al fications	Lapox ARL-135		
	Properties		Unit
	Appearance		-
	Colour		GS
	Viscosity at 25°C		m Pas
	Epoxy content	DE°C	Eq/kg
	Specific gravity at 2	25°C	-
	Lapox AH-335		
	Properties	U	Init

riopenties	Onit	restmethou	values
Appearance	-	Visual	Clear, yellowish liquid
Colour	GS	ASTM D1544	Max 4
Viscosity at 25°C	m Pas	ASTM D2196	20 - 100
Specific gravity at 25°C	-	ASTM D792	0.98 - 1.04

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Processing properties	Properties	Unit	Test me	ethod	Values				
	Mixing ratio (by weight)	-	Visual		Resin: 100 Hardener: 32				
	Initial mix viscosity	m Pas	ASTM D2196		300 - 500 / 25°C				
	Pot life	Minutes	ASTM E	02471	90 - 130 at 20°C 50 - 60 at 25°C				
	Curing shrinkage	%	-		1.6				
	Curing schedule	°C / hours	-		25°C / 24 hours + 70°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 metho					
	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		g Pa	ISO 178	3.0 - 3.6				
	Compressive strength		m Pa	ISO 604	120 - 140				
	Hardness Glass transition temperature (DSC) Water absorption 25°C / 24 hours		Shore D	ISO 868	80 - 90				
			°C	ISO 11357	- 2 75 - 85				
			% w/w	ISO 62	Max 0.5				
Packaging Storage and handling	Lapox ARL-135 is available in 30 kg, 110 kg and 240 kg carboys. Lapox AH-335 is available in 1 kg HDPE bottles. Other packing may be considered on request. Lapox ARL-135 and hardener Lapox AH-335 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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