LAPOX[®] L-12 | AH-337

Technical Data Sheet | Polymers Business



Ambient cure epoxy	Laboy L 12	100	nhw						
system	Lapox L-12		pbw						
	Lapox AH-337	32	pbw						
Description	Lapox L-12 is an unmodified epoxy laminating resin designed for high performance applications and Lapox AH-337 is a modified polyamine based hardener suitable for high mechanical performance applications in static and dynamic load conditions. The relative moderate low initial viscosity of this system ensures fast and complete impregnation of reinforcing fibers such as glass, carbon and polyamide. The components cured at room temperature provides an excellent handling strength. The optimum properties, however, will only be obtained after post curing at temperature of more than 50°C. Fully cured components prepared by this system are recommended to operate between 60°C and 80°C temperature.								
Applications	Automotive Electrical Gliders Motor gliders and planes Moulds and tools Other industrial and house hold components Recreational and sporting goods Ships and boats Wind turbine blades								
Processing	Contact pressure mouldings Filament winding Pultrusion Resin infusion (RI) Resin transfer moulding (RTM) Vacuum and pressure bag techniques Wet lay-up lamination								
Typical specifications	Lapox L-12								
-	Properties		Unit	Test m	nethod	Values			
	Appearance		-	Visual		Clear, viscous liquid			
	Colour		GS	ASTM	D1544	Max 1			
	Viscosity at 25°C)	m Pa	s ASTM	D2196	9,000 - 12,000			
	Epoxy content		Eq/kg	ASTM	D1652	5.26 - 5.55			
	Specific gravity a	at 25°C	-	ASTM	D792	1.1 - 1.2			
	Lapox AH-337								
	Properties		Unit	Tes	t method	Values			
	Appearance		-	Visu	ıal	Clear liquid			
	Colour		GS	AST	M D1544	Max 4			
	Viscosity at 25°C	2	m P	as AST	M D2196	5 - 20			

Specific gravity at 25°C

0.93 - 0.99

ASTM D792

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properties	Properties	Unit	Test n		Values				
	Mixing ratio (by weight) -		Visual		Resin: 100 Hardener: 32				
	Initial mix viscosity	m Pas	ASTM	D2196	400 - 700 / 25°C				
	Pot life at 25°C	Minutes	ASTM	D2471 3	300 - 380				
	Curing schedule	°C / hours	-		70°C / 8 hours				
Typical properties of neat cured system	Curing schedule: 70°C / 8 hours Determined on standard test specimen at 25°C								
	Properties		nit	Test metho					
	Tensile strength		i Pa	ISO 527	60 - 70				
	Elongation at break	%		ISO 527	3 - 7				
	Elastic modulus in tension	0	Pa	ISO 527	2.8 - 3.4				
	Flexural strength		ı Pa	ISO 178	115 - 130				
	Flexural elongation at break	%		ISO 178	40 - 8				
	Elastic modulus in flexural	0	Pa	ISO 178	2.8 - 3.6				
	Compressive strength	m	ı Pa	ISO 604	120 - 140				
	Hardness		hore D	ISO 868	80 - 90				
	Glass transition temperature ((DSC) °C	C	ISO 11357 -	2 90 - 105				
	Water absorption 25°C / 24 ho	ours %	w/w	ISO 62	Max 0.5				
Storage and	HDPE bottles. Other packing m	hay be considered	l on reque	est.					
handling	Resin Lapox L-12 and hardener sealed containers. Resin and ha be reversed completely by hear use resin and hardener only wh to moisture. Container must be may cause irritation to sensiti immediately with soap and warr instructions on storage and har	ardener may crys ting the material I en they are clear closed properly i ve skins. If conta m water. Please re	tallise if st between 6 and free f mmediate act does	cored below 15 60°C and 70°C rom cloudiness ly after use. Bo occur then it s	°C. Crystallisation m . It is recommended s. Hardener is sensiti oth resin and harder should be washed				
	sealed containers. Resin and had be reversed completely by hear use resin and hardener only wh to moisture. Container must be may cause irritation to sensitivity immediately with soap and warr	ardener may crys ting the material I en they are clear closed properly i ve skins. If conta m water. Please re ndling. pment (PPE). Ave e resin should be	tallise if si between (and free f mmediate act does efer to the bid conta washed	tored below 15 50°C and 70°C rom cloudiness ely after use. Bo occur then it s Safety Data Sl ct with the eye off immediately	°C. Crystallisation m . It is recommended s. Hardener is sensiti oth resin and harder should be washed heet (SDS) for detail s and skin. In case y with soap and wa				

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Note Lapox[®] is a registered trademark of Atul Ltd.

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