M HEXION Technical Data Sheet

EPIKOTE™ Resin MGS™ LR285

Aromal	Fernan Federal Aviation Authority		
Application	Production of gliders, motor gliders and motor planes, boat and shipbuilding, sports equipment, model simplanes, models and holos		
Operational temperature	50 °C to p b 40°C willouch hast transment 50°C to p b 40°C willouch hast transment 50°C to p b 40°C willouch hast transment		
Procession	80 °C up to 400 °C plate has treatment Harmoniahras believes 15°C and 50°C sill common procession methods		
Feetures	Se contraction contraction of the contract processing memorials Soot medication contraction of the contract processing memorial Soot medication of the contraction of the contract processing memorial Soot medication of the contract processing memorial Soot memorial mem		
Peachs	Pot life of approx. 30 min to approx. 3.5 hours at 25°C		
Storage	Shell file of 24 months in originally sealed containers		

APPLICATION

Laminating reain system approved by the GERMAN FEDERAL AVAITON AUTHORITY Application with different poll less used processing of plass, carbon and sarmide flows, featuring high static and dynamic loadability.

May be hast treatment of MT_6.5% The system means that standards for reflects and member of inferent pollines for realizations and the member of the statement of MT_6.5% The system means that the standards for reflects and member of inferent pollines for realizations and the member of the statement of MT_6.5% The system means for the system of MT_6.5% The system of MT_6.5% The system of MT_6.5% The system means for the system of MT_6.5% The system o

The recipit of por five at 20°C is between approx 3.3 min and 3.5 h. This curring approx have the same entiring totic own can be invested among the components mendatured are worksholds and dismodabile. You will necessive high-places and non-body purfaces, were with unknownible precuring conditions, e.g. lower interpretatives or high-hamiltonian compared to the components mendatured are worksholds and dismodabile. You will necessive high-places and non-body purfaces, were with unknownible precuring conditions, e.g. lower impressions or high-hamiltonian compared to the components mendatured as worksholds and dismodabile. You will necessive high-places and non-body purfaces, were with unknownible precuring conditions, e.g. lower impressions or high-hamiltonian compared to the components of the components mendatured as worksholds and dismodabile. You will necessive high-places and non-body purfaces.

h heat resistance or alroralt approval are not necessary, curing agent LHIBS can also be used without heat treatment afterwards. However, the indicated properties will only be obtained after heat treatment at temperatures over 50 °C

Epony reains are super cooled liquids, therefore crystallisation is internatedly possible. In an early stage, crystallisation is visible as a clouding, and can propess to a stage, when the reain becomes a was-like solid. This physical phenomenon is reverable and in no restriction to quality after its reverable, in fact a high purity of material will increase a windercy for

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Streas the supproxi of Leminning usin LH255 in 1915, it has been used by nearly all manufactures of pinnes and gidden and—especially because of the enterently good physiological computability—it is the most commonly used system in the aircraft industy today, it drive happens that workers who have experienced problems with some open yearins concerning allergies or sin initiation are able to process laminating result.

ECIFICATIONS

		Laminating resin LPC85					
Dansity ⁽ⁱ⁾	[g/cm ⁴]	1.18-1.23					
Visionity ⁶	[mPa-a]	600 – 900					
Refractory Index 1		1.525 – 1.530					
		Curing agent					
		LH285	LH286	LH287			
Dansity ⁽ⁱ⁾	[g/cm²]	0.94 - 0.97	0.94 - 0.97	0.93 - 0.96			
Visionity ⁶	[mPa s]	50 – 100	60 - 100	80 - 120			
Refractory Index 1		1.500 - 1.506	1.498 - 1.502	1.495 – 1.499			
Potifié "	[min]	15 - 20	app. 40	spp. 140			
I g pp unconditioned	[10]	80 - 85 °C	85 - 90 °C	90 – 95 °C			
Eg conditioned ^b	[10]	65 - 70 °C	78 – 82 °C	83 – 88 °C			

Measuring condition

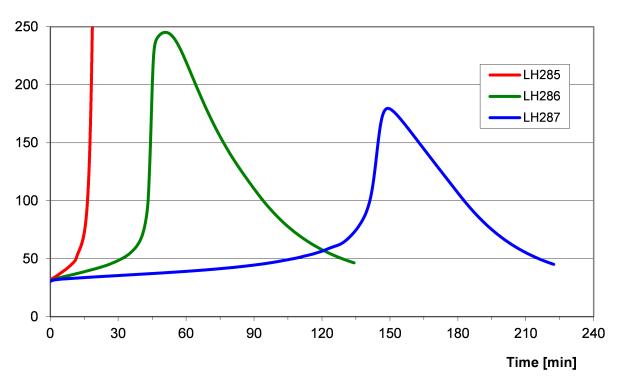
2) measured in 30°C water bath, 100g sample

	LR285 : All curing agents
Parts by weight	100:40 ± 2
Parts by volume	100:51 a 2
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The ministry and stated must be disserted way seatedly. Adding more or less curing agent will not seal in a latest or lisever seator. — but in incomplete curing with carried be connected in any way. Reain and curing agent must be mined very throughly, Mix und no clouding is wisible in the mining container. Pay special attention to the walls and better No curins assert, bears between the colors to distinctive between many in an out-or agent, and for example to the more indeed or the colors and inclinated between many and curind for adversar with the work. As of the colors and inclinated between many and curind carries, and for example in distinctive in the colors and inclinated between many and curind for an effect or the more assertant to work and with the colors and inclinated between many and curind for an effect or the more assertant to work and the color and inclinated between many and color and inclinated and in the color and inclinated between many and in curind for a secondary and in a color of the color and inclinated between many and in curind for a secondary and in a color of the color and in color and in color and in a color and in

EMPERATURE DEVELOPMENT

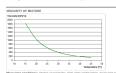
Temperature [°C]



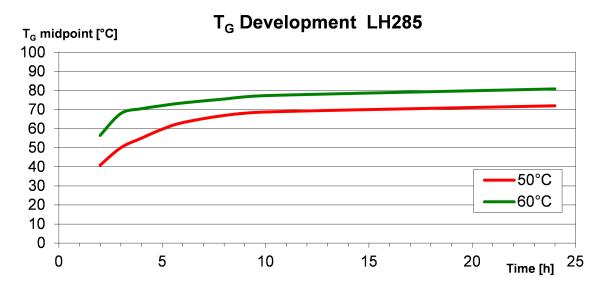


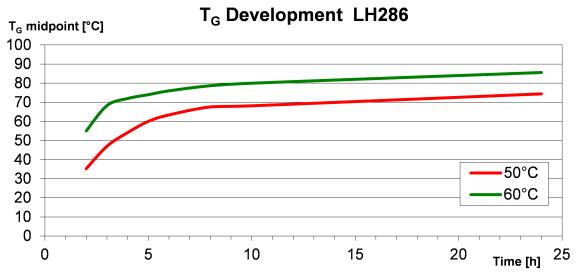
Quintum processing interpretation in this large of 27% to 25%. Thigher impressions are passible, but all horizone part for A. Asseptiones recovered 15% of the large part for A. Asseptiones recovered 15% of the large part for Assembly processing and the part of the large part for Assembly processing and the part of the part of part o



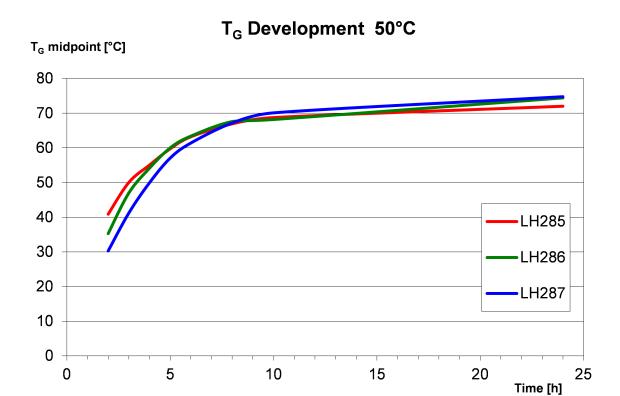


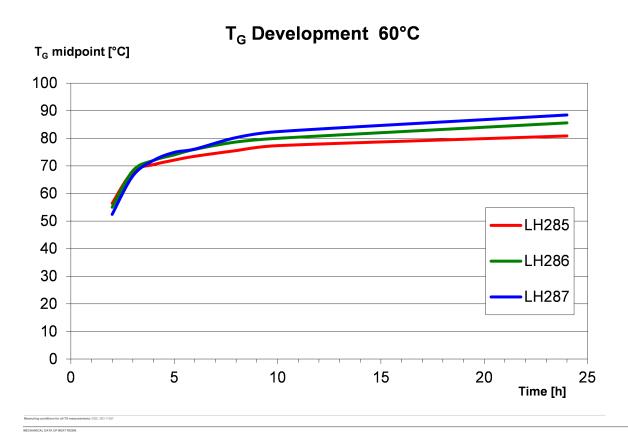
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EPIKOTE™ Resin MGS™ LR285 and EPIKURE™ Curing Agent MGS™ LH285-287

Mechanical data				
MECHIFICAL DATA				
Dinnity	[g/cm ^p]	1,18-1,20		
DIN EN ISO 1183-1	(guir)	1,10-1,00		
Pleased strength		110 – 120		
DIN EN ISO 178	[MPa]	110 – 120		
Modulus of elasticity	[GPa]	3,0-3,3		
DIN EN ISO 178	[GPS]	3,0-3,3		
Fernille strength	[MPa]	70 – 80		
DIN EN ISO 527-2	[str-s]	70 - 00		
Compressive strongth	[MPa]	120 – 140		
DIN EN ISO 604	[MPA]	120 - 140		
Elongation at break				
DIN ÉN ISO 527-2	[5]	5,0 - 6,5		
inpact strength				
80 179-1	[kl/m²]	45 – 55		
Water absorption at 20°C	24h [%]	0,20 - 0,30		
DIN EN ISO 175	7d [%]	0,60 – 0,80		
Duing 34h at 23°C + 15h at 60°C				

Advice:

Mechanical data are troical for the combination of laminating resin LR285 with ouring agent LH287. Data can differ in other applications

MECHANICAL DATA OF REINFORCED RESIN

Mechanical data		Glass fibre	Carbon fibre	Arsmide fibre
exural strength	[MPa]	510 - 560	720 - 770	350 - 380
ensile strength	[GPa]	460 - 500	510 - 550	400 - 480
ompressive strength	[MPa]	410 – 440	460 – 510	140 – 160
terlaminar Shear Strength	[MPa]	42 – 46	47 – 55	29 - 34
odulus of Elasticity	[MPa]	20 - 24	40 - 45	16 - 19
lass the benome. For all part of glass black (200 glass / 200 glass / 4 mm drack strice filter harms For all parts (200 glass / 200 glass / 4 mm drack strice filter harms For all parts (200 glass / 2 mm drack				

Advice: Mechanical data are typical for the combination of laminating resin LR285 with curing agent LR287. Data can differ in other applications

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Ear ** Total contract Auditors A. Contract Contr

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