

Product Information

EpoxyLite[®] H1100

1 Component Epoxy VPI Resin

ELANTAS Beck GmbH

Grossmannstr. 105
20539 Hamburg
Germany
Tel +49 40 78946 0
Fax +49 40 78946 276
info.elantas.beck@altana.com
www.elantas.com

ELANTAS Camattini S.p.A.

Strada Antolini n°1 loc. Lemignano
43044 Collecchio (PR)
Italy
Tel +39 0521 304711
Fax +39 0521 804410
info.elantas.camattini@altana.com
www.elantas.com

ELANTAS UK Ltd

Keate House
1 Scholar Green Road
Cobra Court
Manchester M32 0TR
United Kingdom
Tel +44 161 864 1689
Fax +44 161 864 6090
info.elantas.uk@altana.com
www.elantas.com

EpoxyLite® H1100

Description:

Single component, clear amber, epoxy resin suitable for use at Class H temperatures.

EpoxyLite® H1100 has a low penetration viscosity and cure to become a tough resilient product. Excellent moisture and Chemical resistance.

Application:

Dip / Dip Roll / VPI of motors and transformers.

Processing:

For a complete guide to the processing of components and machines in EpoxyLite® H1100 please refer to the separate processing data sheet for this product.

Containers of EpoxyLite® H1100 should be stored in a cool place away from direct sunlight or other heat sources.

Maintenance of Resin:

The viscosity and gel-time of EpoxyLite® H1100 in tanks should be regularly monitored and maintained within the recommended limits.

A Tank Sample Testing service is available from ELANTAS Electrical Insulation on request.

Properties:

Appearance	Clear Amber / off white liquid	
Viscosity	800	mPas @ 25°C
Specific Gravity	1.13	g / cm ³
Mix Ratio	Single Component	p.b.w.
Mix Ratio	Single component	p.b.v.
Gelation Time	8 minutes	@ 165°C
Cure Schedule	Min 4 - 6 hours or Min 3 hours	@ 150°C @ 165°C
Flash Point	> 200	°C

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Cured Properties		
Thermal Class	(ASTM D2307 / 20000 hrs)	180° C
Shore D Hardness	(DIN 53505)	87 @ 25° C
Glass Transition Temp.	(IEC 1006)	90° C
Tensile Strength	(ISO 527)	75 N / mm ²
Elongation at Break	(ISO 527)	5.0 %
Thermal Coeff of Expansion	(DIN 53752)	60.10 ⁻⁶ K ⁻¹
Thermal Conductivity	(ISO 8894-1)	0.21 W / mK
UL Recognition	E204181	TP 180°C
Water Absorption	(ISO 62)	0.20 % @ 23°C
Dielectric Strength	(IEC 243-1)	190 kV / cm
Dielectric Constant	(IEC 250)	4.0 @ 50Hz
Dissipation Factor	(IEC 250)	0.002 @ 20° C
Volume Resistivity	(IEC 93)	> 10 ¹⁵ ohm / cm
Comparative Tracking Index	(IEC 112)	> 550 Volts
Storage	Minimum storage life 12 months in tightly closed containers at temperatures below 25°C.	
Handling	Refer Material safety data sheet.	
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