ELANTAS
Electrical Insulation

Product Information

Epoxylite® H1100

1 Component Epoxy VPI Resin

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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 @ 25ºC
Specific Gravity	1.13	g / cm³
Mix Ratio	Single Component	p.b.w.
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Gelation Time	8 minutes	@ 165ºC
Cure Schedule	Min 4 - 6 hours or Min 3 hours	@ 150ºC @ 165ºC
Flash Point	> 200	ºC

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Cured Properties		
Thermal Class	(ASTM D2307 / 20000 hrs)	180º C
Shore D Hardness	(DIN 53505)	87 @ 25º C
Glass Transition Temp.	(IEC 1006)	90º C
Tensile Strength	(ISO 527)	75 N / mm²
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 % @ 23ºC
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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