ELANTAS
Electrical Insulation

Product Information

Epoxylite® EIP 5600

Potting / Trickle Impregnation Resin

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Epoxylite® EIP 5600

Description:

Long working life, low viscosity, unfilled, two component epoxide system which cures to a tough, resilient resin for use at Class H temperatures

Application:

Trickle and dip roll of rotors, bonding and potting of electrical / electronic components.

Processing:

Trickle and dip roll of rotors processing is carried out at temperatures in the region of 50ºC - 90ºC.

Potting and general sealing applications ideally should be performed at room temperature.

Best results are achieved when the material is processed under vacuum.

Properties:

	Resin	Hardener	Mixture	
Appearance	Clear Yellow Liquid	Clear Yellow / Water White Liquid	Clear Yellow Liquid	
Viscosity	4000	20	375	mPas @ 25ºC
Specific Gravity	1.15	0.95	1.09	g / cm³
Mix Ratio	Resin to Hardener 3 : 1			p.b.w.
Mix Ratio	Resin to Hardener 2.5 : 1			p.b.v.
Gelation Time	180 minutes			@ 25ºC
Cure Schedule	Up to 24 hours			@ 25ºC
Flash Point	> 100	> 100	> 100	ºC

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Cured Properties		
Thermal Class	(ASTM D2307 / 20000 hrs)	180º C
Shore D Hardness	(DIN 53505)	90 @ 25º C
Glass Transition Temp.	(IEC 1006)	75º C
Tensile Strength	(ISO 527)	65 N / mm²
Elongation at Break	(ISO 527)	3 %
Thermal Coeff of Expansion	(DIN 53752)	$100.10^{-6}K^{-1}$
Thermal Conductivity	(ISO 8894-1)	0.20 W / mK
UL Recognition		
Water Absorption	(ISO 62)	0.26 % @ 23ºC
Dielectric Strength	(IEC 243-1)	160 kV / cm
Dielectric Constant	(IEC 250)	4.0 @ 50Hz
Dissipation Factor	(IEC 250)	10 % @ 20° C
Volume Resistivity	(IEC 93)	> 10^{14} 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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