

Product Information

# EpoxyLite<sup>®</sup> 578E W

1 Component Epoxy VPI Resin

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# EpoxyLite® 578E W

## Description:

Single component, Class H epoxide impregnating resin for global VPI treatment of rotating machines from low voltage to 6.6 kV and transformers.

## Application:

EpoxyLite® 578E W has been specifically developed for use in the electric motor repair and transformer manufacturing industries to provide a tough resilient cured product for superior service performance of machines which must operate in exacting environments.

## Processing:

For a complete guide to the processing of components and machines in EpoxyLite® 578E W please refer to the separate processing data sheet for this product.

Containers of EpoxyLite® 578E W 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® 578E W in tanks should be regularly monitored and maintained within the recommended limits.

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

## Properties:

Appearance	Off white coloured liquid	
Viscosity	3000	mPas @ 25°C
Specific Gravity	1.15	g / cm <sup>3</sup>
Mix Ratio	Single Component	p.b.w.
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Gelation Time	10 - 15 minutes	@ 165°C
Cure Schedule	8 – 10 hours	@ 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)	90 @ 25° C
Glass Transition Temp.	(IEC 1006)	120° C
Tensile Strength	(ISO 527)	60 N / mm <sup>2</sup>
Elongation at Break	(ISO 527)	4.5 %
Thermal Coeff of Expansion	(DIN 53752)	50.10 <sup>-6</sup> K <sup>-1</sup>
Flexural Strength	(ISO 178)	105 Mpa
Flexural Modulus	(ISO 178)	3.0 Gpa
Thermal Conductivity	(ISO 8894-1)	0.23 W / mK
Water Absorption	(ISO 62)	0.12 % @ 23°C
Dielectric Strength	( IEC 243-1 )	> 185 kV / cm
Dielectric Constant	(IEC 250)	3.41 @ 50Hz
Dissipation Factor	(IEC 250)	0.003 @ 20° C
Volume Resistivity	(IEC 93)	> 10 <sup>13</sup> 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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Our advice in application technology given verbally, in writing and by testing corresponds to the best of our knowledge and belief, but is intended as information given without obligation, also with respect to any protective rights held by third parties. It does not relieve you from your own responsibility to check the products for their suitability to the purposes and processes intended. The application, usage and processing of the products are beyond our reasonable control and will completely fall into your scope of responsibility. Should there nevertheless be a case of liability from our side, this will be limited to any damage to value of the merchandise delivered by us. Naturally, we assume responsibility for the unobjectionable quality of our products, as defined in our General Terms and conditions.