

EpoxyLite

Technical Data Sheet

Product: EpoxyLite TSA 220FM

Description: Single component, translucent, Epoxy VPI resin.

TSA 220FM is a specifically formulated version of TSA 220S to provide improved film coating and build after VPI impregnation and cure of traction armatures and coils.

This product can be processed without pre-heating.

Application: High performance VPI resin for treatment of traction motors to provide a cured insulation system which conforms to thermal class 220° C.

Processing Characteristics:

	Resin	Hardener	Mixture	
Viscosity	5500	-	-	mPas @ 25° C
Specific Gravity	1.18	-	-	g/cm ³
Mix Ratio	Single component			p.b.w.
Mix Ratio	Single component			p.b.v.
Gelation Time	6 minutes			@ 165° C
Cure Schedule	12 hrs			@ 165° C

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Cured Properties:

Shore D Hardness:	(DIN 53505)	90 @ 25°C
Thermal Class:	(ASTM D2307/20000hrs)	200° C
Glass transition Temp.	(IEC 1006)	145° C
Tensile Strength:	(ISO 527)	110 N / mm²
Elongation at Break:	(ISO 527)	2.5 %
Thermal Coeff. of Expansion:	(DIN 53752)	50.10⁻⁶K⁻¹
Thermal Conductivity:	(ISO 8894-1)	0.23 W / mK
UL Recognition:		-
Water Absorption:	(ISO 62)	0.12 % @ 23°C
Dielectric Strength:	(IEC 243-1)	>200 kV / cm
Dielectric Constant:	(IEC 250)	3.60 20° C
Dissipation Factor:	(IEC 250)	0.003 20° C
Volume Resistivity:	(IEC 93)	> 10¹³ 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.

Issue: 01/03/2005

This information is based on test results believed to be accurate and reliable. Nothing herein however, is considered a warranty, either expressed or implied regarding the application and performance of EpoxyLite materials, since the conditions of use are beyond our control.