
Damisol® 3630 HTP 02/300 1-component-resin

Damisol® 3630 HTP 02/100 is an opaque, solvent-free 1-component-resin based on unsaturated polyesterimides.

Attributes

The thixotrop Damisol® 3630 HTP 02/100 has the following properties:

- no VOC (Volatile Organic Compound)
- very low smell
- high reactivity
- high stability in tank
- low viscosity

Cured Damisol® 3630 HTP 02/100 has the following properties:

- outstanding thermal resistance up to (and more than) Class H.

Application

Damisol® 3630 HTP 02/100 is suitable for 3.3. kV machines using right porous mica polyester film based tape as main wall insulation, like Samicapor 315.45. Dipping, VPI, trickling and Roll-Dipping of all kinds of windings, from any low and medium voltage machines and transformers.

Standards

- UL-approved Class 180 (H)
- UL-File-no. E 98511
- RoHS-compliant acc. 2011/65/EU
- VOC-free, 1999/13/EC

Delivery forms

Damisol® 3630 HTP 02/100 is available in:

- 20 kg cans
- 200 kg drums
- 1000 kg container

Storage

Damisol® 3630 HTP 02/100 can be stored 12 months at max. 25 °C in sealed containers and must be protected from light and sun. Higher temperature can be reached during short period of time. If storing the resin in a supply tank, it is recommended keeping the resin under atmospheric pressure.

Hardening

Recommended curing time:

- Trickling: at 150 °C - 30-60 min.
- Dipping and VPI: at 150 °C - 2 h

Protection

Please refer to the material safety data sheet for complete information.

Processing

The Damisol® 3630 HTP 02/100 can be precessed in any kind of dipping, VPI; trickling or Dip-Rolling machines, in immersion and vacuum or vacuum pressure installations. If storing the resin in a supply tank, we recommend keeping the resin under atmospheric pressure. It is advantageous not to fill the supply tank completely. The recommended filling level is 70 %.

Using hot impregnating process, the resin temperature should be maintained lower than 30 °C and refreshed with new resin.

Mechanical	Unit of measure	Conditions	Value	Test method
Bond strength	daN	23 °C	25	IEC 61033
Bond strength	daN	155 °C	8	IEC 61033
Bond strength	daN	180 °C	6	IEC 61033

Thermal	Unit of measure	Value
Thermal class	°C	180

Chemical	Unit of measure	Conditions	Value	Test method
Resistance	%	2 % sodium hydroxide	<0.1	ISO 175
Resistance	%	10 % hydrogen chloride	<0.7	ISO 175

Liquid phase	Unit of measure	Conditions	Value	Test method
Flashpoint	°C		>100	ISO 3679
Gel time at 120 °C	min		3-6	

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Liquid phase	Unit of measure	Conditions	Value	Test method
Density	g/cm ³	at 23 °C	1.10	
Viscosity	mPas	23 °C / 2.5 rpm	250-350	Brookfield/ISO 2555

Electrical	Unit of measure	Value	Test method
Dielectric strength at 23 °C and 50 % r.h.	kV/mm	≥150	DIN 46448

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