
Damisol® 3630 VPI 02 1-component-resin

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

Attributes

The thixotrop Damisol® 3630 VPI 02 has the following properties:

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

Cured Damisol® 3630 VPI 02 has the following properties:

- high resin absorption
- outstanding thermal resistance (mechanical/electrical)

Application

Damisol® 3630 VPI 02 can be used for hot dipping and VPI of all kinds of windings, from any low/medium (3.3 kV) voltage rotating machines. Due to its high thermal resistance it could be used on any kind of electrical equipment exposed to high temperature conditions, as industrial motors and generators.

Standards

- UL-approved Class 180 (H)
- UL-file-no. E98 511
- RoHs compliant acc. 2011/65/EU
- VOC-free acc. 1999/13/EU

Delivery forms

Damisol® 3630 VPI 02 is available in:

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

Storage

Damisol® 3630 VPI 02 can be stored minimum 12 months at max. 25 °C in sealed containers, protected from light and sun. Higher temperature can be achieved during short period of time.

Hardening

Recommended curing time:

2 h at 150 °C

Higher temperature and longer curing time will optimize the chemical resistance as well as the mechanical properties.

Protection

Refer to the material safety data sheet for complete information.

Processing

Damisol® 3630 VPI 02 can be processed on any kind of hot dipping or VPI equipment. The resin has to be protected from contamination. A regular viscosity check is necessary. Using the hot impregnating process, the resin temperature should be maintained lower than 30 °C and refilled with new resin. 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 %.

Mechanical	Unit of measure	Conditions	Value	Test method
Water absorption	%	after 7d at 23 °C	<0.75	ISO 62
Water absorption	%	after 24h at 23 °C	< 0.2	ISO 62
Bond strength	daN	at 23 °C	21	IEC 6033
Bond strength	daN	at 155 °C	11	IEC 6033

Chemical	Conditions	Values	Test method
Resistance	2 % sodium hydroxide	<0,1 %	ISO 175
Resistance	20 % sulfuric acid	< 0.3 %	ISO 175

Liquid phase	Unit of measure	Conditions	Values	Test method
Viscosity	mPas	at 23 °C and 12 rpm	3200 ± 500	Brookfield
Viscosity	mPas	at 23 °C and 2.5 rpm	7000 ± 1000	Brookfield
Gel time at 120 °C	min		10 ± 3	
Flashpoint	°C		≥110	
Density (22 °C)	g/cm ³		1.1	

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

Updated 07/19



Electrical	Unit of measure	Values	Test method
Dielectric strength at 23 °C and 50 % r.h.	kV/mm	≥100	DIN 46448

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

Updated 07/19

