LANDU

Technical data sheet
TDS-NOVERA-2040-L-EN
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LANDUSIL NOVERA

2040-L

Methoxy-Functional Methyl Phenyl Silicone Resin

Solvent-free methoxy-functional methyl phenyl resin for resin modification and low-VOC binders

Chemical identity

Chemical name
Methoxy-functional methyl phenyl polysiloxane

CAS number
See SDS

Reactive group
Methoxy (Si–OCH_3)

Physical form
Liquid, solvent-free

Product description

LANDUSIL NOVERA 2040-L is a solvent-free, liquid, methoxy-functional methyl phenyl polysiloxane with a narrow molecular-weight distribution. It is a clear, light straw-coloured liquid.

The methoxy groups react with hydroxyl groups of organic resins or hydrolyse and self-condense. It improves weathering and heat resistance of polyesters, alkyds and epoxies and lowers solvent demand in heat-resistant coatings.

Features and benefits

- Solvent-free liquid resin
- Methoxy-functional, reacts with hydroxyl resins
- Low-VOC binder component
- Improves weathering and heat resistance
- Narrow molecular-weight distribution

Specification

Property	Unit	Value	Test method
Appearance		**Clear, light straw-coloured liquid**	Visual
Viscosity, 25 °C	mPa·s	**90 – 190**	Rotational viscometer
Methoxy content	%	**15 – 18**	Titration
Volatiles, 150 °C / 1 h	%	**max. 2.0**	Gravimetric

Tested on every batch and reported on the Certificate of Analysis.

Typical properties

Refractive index, 25 °C	approx. 1.50 – 1.51
Density, 20 °C	approx. 1.14 g/cm³

For guidance only; not part of the specification.

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Applications

Polyester and alkyd resin modification
Silicone-modified polyester and alkyd resins.

Heat-resistant coating binders
Reactive diluent for heat-resistant binders.

Epoxy–siloxane hybrid resin manufacture
Intermediate for epoxy hybrids.

Coil impregnation resin systems
Resin component for winding varnish.

Guidelines for use

Reaction	Charge with the organic resin and a catalyst; remove methanol formed during the reaction.
Cold blend	Alternatively blend with silicone resins to reduce solvent demand.

These levels are starting points. Determine the optimum level and method in trials under your own conditions.

Handling and safety

- Releases methanol on reaction or contact with moisture; keep away from ignition sources and use with ventilation.
- Wear gloves and eye protection; avoid skin and eye contact.
- Read the Safety Data Sheet before use.

Storage and shelf life

Store in tightly closed original containers in a cool, dry place, protected from moisture. Shelf life is 12 months from the date of manufacture in unopened containers.

Packaging

25 kg plastic drum, 200 kg steel drum, 1,000 kg IBC. Other pack sizes on request.

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