LANDU

Technical data sheet
TDS-DUVERA-5050-L-EN
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LANDUSIL DUVERA

5050-L

Allyl-Terminated Polysiloxane

Allyldimethylsilyl-terminated PDMS for hydrosilylation and block synthesis

Chemical identity

Chemical name
Allyl-terminated polydimethylsiloxane

CAS number
See SDS

Reactive group
Allyl (C=C)

Physical form
Liquid

Active content
approx. 100 %

Product description

LANDUSIL DUVERA 5050-L is a polydimethylsiloxane with an allyl-functional group at the chain end, supplied as a clear low-viscosity liquid of about 70 mm²/s. It is used as a reactive intermediate.

The allyl double bond adds to Si–H groups in the presence of a platinum catalyst (hydrosilylation). This links the siloxane to polyether chains, resins and other Si–H carriers to make siloxane blocks and intermediates.

Features and benefits

- Allyl double bond for hydrosilylation
- Links siloxane to polyethers and resins
- Low-viscosity liquid, easy to dose
- Clean platinum-catalyzed addition
- 100 % active, no solvent

Specification

Property	Unit	Value	Test method
Appearance		**Clear liquid**	Visual
Kinematic viscosity, 25 °C	mm²/s	**max. 100**	Capillary viscometer, 25 °C

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

Typical properties

Kinematic viscosity, 25 °C	approx. 70 mm²/s
Density, 25 °C	approx. 0.96 g/mL

For guidance only; not part of the specification.

Applications

Siloxane block synthesis
Allyl-functional siloxane block.

Organic resin modification pathways
Siloxane segment through allyl addition.

Polyether-containing intermediate development
Hydrosilylation partner for polyether intermediates.

Hydrosilylation reaction development
Allyl partner for Si–H functional carriers.

Guidelines for use

Reaction	Choose the Si–H partner and platinum catalyst, then follow the conversion by Si–H and allyl disappearance.
Residual double bonds	Check residual allyl after the reaction; isomerization can leave unreactive propenyl groups.

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

Handling and safety

- Avoid contact with eyes.
- Spilled fluid makes floors very slippery; clean up immediately.
- Read the Safety Data Sheet before use.

Storage and shelf life

Store in tightly closed original containers in a cool, dry place. 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.

The information in this data sheet reflects our current knowledge and is given in good faith. It is not a guarantee of properties or of suitability for a particular use, and it does not release users from testing the product for their own application and process. Users are responsible for complying with applicable laws, regulations and third-party rights. Only the values under Specification are binding, as confirmed on the Certificate of Analysis. This edition supersedes all previous editions. For safety information, see the current Safety Data Sheet. © 2026 LANDUSIL. All rights reserved. LANDUSIL and its product series names are trademarks of LANDUSIL. No part of this document may be reproduced, modified or redistributed without prior written permission.