LANDU

Technical data sheet
TDS-DUVERA-5030-L-EN
Revision 1.0, November 2026

LANDUSIL DUVERA

5030-L

Amino-Terminated Polysiloxane

Aminopropyl-terminated PDMS, about 50 – 60 mm²/s, for epoxy and polyurethane modification

Chemical identity

Chemical name
Aminopropyl-terminated polydimethylsiloxane

CAS number
106214-84-0

Reactive group
Primary amine, both ends

Physical form
Liquid

Product description

LANDUSIL DUVERA 5030-L is a linear polydimethylsiloxane with a primary aminopropyl group at each chain end. The fluid has a viscosity of about 50 – 60 mm²/s and a molecular weight of about 3,000 g/mol.

The terminal amino groups react with epoxy resins, isocyanates and anhydrides, which builds a siloxane block into the product. The fluid is used to modify epoxy and polyurethane adhesives and to make silicone polyurethane, polyurea, polyamide and polyimide block copolymers.

Features and benefits

- Primary amino groups at both chain ends
- Reacts with epoxy, isocyanate and anhydride
- Low viscosity, easy to meter
- Builds siloxane blocks into copolymers
- 100 % active, no solvent

Specification

Property	Unit	Value	Test method
Appearance		**Clear liquid**	Visual
Kinematic viscosity, 25 °C	mm²/s	**50 – 60**	Capillary viscometer, 25 °C

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

Typical properties

Molecular weight	approx. 3,000 g/mol
Refractive index, nD25	approx. 1.408
Density, 25 °C	approx. 0.97 g/mL

For guidance only; not part of the specification.

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Applications

Epoxy adhesive modification
Amine-functional siloxane for epoxy adhesives.

Polyurethane adhesive resin development
Siloxane segment in polyurethane adhesives.

Siloxane polyurethane and polyurea manufacture
Chain-end amine for block copolymers.

Polyamide and polyimide block manufacture
Siloxane block in polyamide and polyimide.

Guidelines for use

Stoichiometry	Calculate with the amine content of the delivered lot and keep the ratio to the reaction partner constant.
Moisture and CO_2	Amino groups take up carbon dioxide and moisture; keep containers closed between uses.

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

Handling and safety

- Amines can irritate eyes, skin and airways; wear gloves and eye protection and ventilate.
- 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; reseal after use. 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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