LANDU

Technical data sheet
TDS-DUVERA-5060-L-EN
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LANDUSIL DUVERA

5060-L

Hydroxyl-Terminated Polydimethylsiloxane (107 Silicone)

Silanol-terminated PDMS, about 20,000 mPa·s, base polymer for condensation-cure silicones

Chemical identity

Chemical name
α,ω-Dihydroxy polydimethylsiloxane

CAS number
70131-67-8

Reactive group
Silanol (Si–OH), both ends

Physical form
Viscous liquid

Product description

LANDUSIL DUVERA 5060-L is an α,ω-dihydroxy polydimethylsiloxane (107 silicone base polymer) with a viscosity of about 20,000 mPa·s. It is a colorless, transparent, viscous liquid.

The silanol end groups condense with alkoxy, oxime or acetoxy crosslinkers in the presence of a catalyst and moisture to give room-temperature-vulcanizing rubber. The polymer is used in construction sealants, assembly adhesives and condensation-cure mold-making silicones.

Features and benefits

- Silanol groups at both chain ends
- Base polymer for room-temperature cure
- About 20,000 mPa·s for sealant bases
- Colorless and transparent
- 100 % active, no solvent

Specification

Property	Unit	Value	Test method
Appearance		**Colorless, transparent, viscous liquid**	Visual
Viscosity, 25 °C	mPa·s	**18,000 – 22,000**	Rotational viscometer, 25 °C
Volatile content	%	**max. 2.0**	Gravimetric, 150 °C, 3 h

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

Typical properties

Density, 25 °C	approx. 0.96 – 0.98 g/mL
Refractive index, nD25	approx. 1.401

For guidance only; not part of the specification.

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Applications

Construction silicone sealants
Base polymer for neutral and acetoxy sealants.

One-component assembly adhesives
Moisture-cure bonding adhesives.

Two-component condensation bonding
Base for two-part condensation adhesives.

Condensation-cure silicone molds
Base for tin-cure mold rubbers.

Guidelines for use

Crosslinker and catalyst	Set the crosslinker and catalyst levels against the silanol content and the moisture present.
Filler water	Dry fillers before compounding; water in the filler starts the cure in the pack.

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; protect 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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