

ELASTOSIL[®] NT 76



Liquid Silicone Rubber (LSR)

ELASTOSIL[®] NT 76 is a solvent-free, addition curing silicone rubber with non-thixotropic viscosity.

Properties

- general purpose grade for textile coatings
- especially suitable for fine coatings < 100 g/m²
- non-thixotropic rheological behavior
- easy processing

Technical data

Properties Uncured

Property	Condition	Value	Method
Appearance	-	colorless	-
Viscosity, dynamic ⁽¹⁾	-	40000 mPa·s	Brookfield
Density	-	1.00 g/cm ³	DIN EN ISO 2811

¹ 2.5 rpm

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Cured

Cure conditions: mixture 100 parts NT 76 + 3 parts CROSSLINKER 525, 5 min / 165°C

Property	Condition	Value	Method
Hardness Shore A	-	20	DIN ISO 48-4
Tensile strength	-	0.7 N/mm ²	ISO 37 type 1
Elongation at break	-	160 %	ISO 37 type 1
Tear strength	-	2.3 N/mm	ASTM D 624 B
Dielectric strength (1-mm-sheet)	-	32 kV/mm	IEC 60243-1

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Industrial Textiles

Application details

ELASTOSIL® NT 76 is a general purpose silicone rubber for textile coating applications, like manufacturing of conveyor belts, electrical sleeveings, protective clothing, bellow expansion joints, awnings, sunblinds, sports performance fabrics, airbags and medical fabrics.

Due to the low viscosity and the non-thixotropic rheology ELASTOSIL® NT 76 is especially suited for fine coatings. It can also be used to dilute other liquid silicone rubbers to adjust coating viscosity.

Processing

ELASTOSIL® NT 76 is processed by thorough incorporation of a crosslinker.

Recommended ratio is 100 parts of ELASTOSIL® NT 76 plus

- 3 parts of CROSSLINKER 525

Pot life at 23°C: 2-3 days

Recommended curing conditions: 3 min at 150°C or 1 min at 180°C

Adhesion of ELASTOSIL® NT 76 depends on substrate and can be varied by crosslinker type/amount and additives (e.g. CATALYST C05 or adhesion promoters). Preliminary testing should be carried out to determine optimum formulation and cure conditions.

Packaging and storage

Packaging

This product is available in 20 kg pails and 200 kg drums.

Storage

Once opened, containers should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds.

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code ELASTOSIL® NT 76



For technical, quality or product safety questions, please contact:

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