

ELASTOSIL[®] E10 ROT



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E10 ROT is a one-component acetoxy-cure silicone rubber with low viscosity, which cures at room temperature under the influence of atmospheric moisture.

It shows good primerless adhesion to many substrates and outstanding heat stability even in long term exposure

Properties

- excellent heat stability: long term 200°C, peak temperature up to 250°C
- non-thixotropic

Special features

- Good adhesion to metals, glass and ceramics
- Heat resistant
- Low viscosity
- Solvent-free

Technical data

General Characteristics

Property	Condition	Value	Method
Density	20 °C	1.11 g/cm ³	DIN 53479

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

Properties Uncured

Property	Condition	Value	Method
Skin formation time ⁽¹⁾	-	10 - 15 min	-
Viscosity D = 0,5 1/s	23 °C	9000	-
Viscosity D = 25 1/s	-	6500	ISO 3219
Density in water	23 °C	1.10 g/cm ³	DIN EN ISO 1183-1 / ISO 2781
Color	-	red	-
Curing time	23 °C 50 % r.h	12 h/mm	-

¹at 23 °C, 50 % RH

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Properties Cured

2 mm, 14 days storage at 20 °C, 50 % RH

Property	Condition	Value	Method
Elongation at break	-	300 %	DIN 53504 S1 / ISO 37
Tensile strength	-	2.5 N/mm ²	DIN 53504 S1 / ISO 37
Hardness Shore A	-	25	DIN 53 505 / ISO 868
Color	-	red	-
Tear strength	-	8.0 N/mm	ASTM D 624 B

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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

- Heating Elements

Application details

High temperature resistant grade for sealing, bonding and coating, use e.g. for sealing tubular heating elements

Processing

ELASTOSIL® E10 ROT shows good primerless adhesion to many substrates. We recommend running preliminary tests to optimize conditions for the particular application.

Detailed processing instructions are given in our brochure "ROOM TEMPERATURE VULCANIZING (RTV) SILICONES - MATERIAL AND PROCESSING GUIDELINES"

Packaging and storage

Storage

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.

QR Code ELASTOSIL® E10 ROT



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

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