

ELASTOSIL[®] LR 3070/40 US A/B

Liquid Silicone Rubber (LSR)

ELASTOSIL[®] LR 3070/40 US A/B is a primerless, self-bonding liquid silicone rubber (LSR) grade that bonds to various plastic substrates (e. g. PA, PBT).

Properties

ELASTOSIL[®] LR 3070 series are primerless self-bonding grades that adhere to various plastic substrates e.g. PA, PBT and metals, but not to the mold surface. The bonding is improved by oven-cure for 1 hour at 100C or 24 hours at room temperature. Because of individual surface properties, each substrate must be tested before production. For further information of compatible substrates, please contact your Wacker agent.

Technical data

Properties Cured

Cure conditions: Press cured 5 mins @ 165 °C.

Property	Condition	Value	Method
Appearance	-	Transparent	-
Hardness Shore A	-	40	-
Viscosity, dynamic A Side	-	550000 mPa·s	Brookfield
Viscosity, dynamic B Side	-	900000 mPa·s	Brookfield
Specific gravity	25 °C	1.13 g/cm ³	-
Tensile strength	-	11.1 mPa	-
Tensile strength	-	1630	-
Elongation at break	-	500 %	ASTM D 412
Brittle Point	-	< -73 °C	-
Modulus at 100 % elongation	-	15 kPa	-
Modulus at 100 % elongation	-	105	-
Pot Life	25 °C	48 h	-
Shrinkage With post cure	-	3.5 %	-
Shrinkage Without post cure	-	3 %	-
Tear resistance	-	25 N/mm	ASTM D 624 B
Tear resistance	-	145	-

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

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.

Application details

ELASTOSIL® LR 3070/40 US A/B can be processed using standard liquid rubber injection molding techniques for over molding or co-molding (2K processes) without special treatment of the mold surface.

Parts made from ELASTOSIL® LR 3070-series can be used for technical applications without post curing but do not comply with regulations for pharmaceutical or food contact.

Processing

ELASTOSIL® LR 3070/40 US A/B is a 2-part, 1:1 ratio system. Parts A and B are delivered in matching quantities in 20-kg and 200-kg pails and drums. With proper metering equipment, product can be pumped 1:1 (A:B) directly from the containers into a static mixer and the injection molding machine. The mixed pot life in the closed system is 2-3 days. Note: New molds should be “seasoned” with ELASTOSIL® LR 3003 for 100 shots prior to production.

Packaging and storage

Storage

ELASTOSIL® LR 3070/40 US A/B has a shelf life of 6 months when stored below 32 °C (90 °F) in the tightly closed original container.

Storage beyond the recommended shelf-life does not necessarily mean that the product is no longer usable. However, the properties required for the intended use must be checked for quality assurance reasons.

Once opened, containers should always be resealed to prevent catalyst poisoning by amines, sulfur compounds, and other substances.

QR Code ELASTOSIL® LR 3070/40 US A/B



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

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The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.