

ELASTOSIL® R 401/10

LOW DUROMETER HIGH CONSISTENCY SILICONE RUBBER

Product description

ELASTOSIL® R 401/10 is a low duro, easily-pigmentable silicone rubber base for extrusion and molding applications as well as for manufacturing of silicone sponge articles in combination with peroxide crosslinkers.

Special features

ELASTOSIL® R 401/10 is a low duro base but with still acceptable to good mechanical as well as good processing properties. It is also suitable as blending component to soften ELASTOSIL® silicone rubber compounds.

Application

ELASTOSIL® R 401/10 is suitable for all applications where low hardness, high elongation, good damping etc. are required in combination with typical silicone properties such as very good heat resistance, good release, soft grip etc. Sufficiently postcured vulcanizates can be used for applications in the food industrie and comply with the Recommendation XV.Silicones of the BfR and FDA CFR 21 §177.2600 .

Processing

ELASTOSIL® R 401/10 can be used in combination with known peroxides. Dosage of 0.5 % of crosslinker E for extrusion and 0.6 % of C1 (dicumylperoxide) for molding purposes will lead to lowest durometer values still maintaining good processing behaviour. Higher dosage of the a.m. peroxides will lead to harder

vulcanizates, however, the hardness will predictably always be below 20 ShA. Processing in extrusion as well as in molding can be carried out as usual. ELASTOSIL® R 401/10 is only slightly slower in crosslinking speed than harder rubbers due to its lower vinyl density.

To our best knowledge ELASTOSIL® R 401/10 is fully compatible with other ELASTOSIL® R rubbers and can be blended with them in any ratio.

ELASTOSIL® R 401/10 is also suitable for extrusion of very soft silicone foam articles with foaming batch ELASTOSIL® AUX XTb (closed cell). Foaming batch MTB leads to formation of incontrollably big bubbles and is not recommended.

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.

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>.

Product data

Typical general characteristics	Inspection Method	Value
Product data (postcured 4h 200 °C)		
Hardness Shore A	DIN 53505	13
Appearance		transparent
Density at 25 °C, at 1013 hPa	ISO 1183-1 A	approx. 1,07 g/cm ³
Tensile strength	DIN 53504 S 1	6 N/mm ²
Elongation at break	DIN 53504 S 1	1200 %
Tear strength	ASTM D 624 B	20 N/mm
Rebound resilience	DIN 53512	38 %
Compression set	DIN ISO 815-B (22 h / 175 °C)	30 %

Cure conditions: 0.5 % crosslinker E (2,4-dichlorobenzoylperoxide), 5 min / 135 °C in press
 These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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