

ELASTOSIL® R 756/70

HIGH CONSISTENCY SILICONE RUBBER

Product description

ELASTOSIL® R 756/70 is a peroxide curing high consistency silicone rubber whose vulcanizates possess excellent resistance to hot air, particularly after addition of heat stabilizer. The vulcanizates show good tear resistance, low compression set and are highly elastic.

Application

ELASTOSIL® R 756/70 is optimized for applications at high temperatures and can be used for moulding and extrusion applications. Vulcanizates of ELASTOSIL® R 756/70 in combination with ELASTOSIL®AUX Stabilizer, can withstand temperatures of 250°C over a period of at least six weeks.

Processing

Vulcanisates which have not been post-cured can be used in numerous fields of applications, since

postcuring has only little effect on mechanical properties. To obtain optimum compression set values it is advisable to post-cure for 4 hours at 200 °C.

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
Curing conditions: 0,7 % ELASTOSIL® AUX Crosslinker C1 (Dicumyl peroxide (98 %)), 15 min / 165 °C, post cured 4h / 200 °C		
Hardness Shore A	DIN 53505	70
Appearance		transparent
Density at 20 °C	DIN 53479	1,16 g/cm ³
Tensile strength	DIN 53504 S 1	9,00 N/mm ²
Elongation at break	DIN 53504 S 1	380 %
Tear strength	ASTM 624 B	22 N/mm
Rebound resilience	DIN 53512	56 %
Compression set	DIN ISO 815-B (22 h / 175 °C)	17 %

Hot-air ageing at 250 °C after 7 days

ELASTOSIL® R 756/70 crosslinked with 0,7% ELASTOSIL®AUX Crosslinker C1, heat stabilized with 1,5% ELASTOSIL®AUX Stabilizer H3, post cured 4h/200°C		
Hardness Shore A		71
Tensile strength		6,50 N/mm ²
Elongation at break		280 %

Hot-air ageing at 250°C after 40 days

ELASTOSIL® R 756/70 crosslinked with 0,7% ELASTOSIL®AUX Crosslinker C1, heat stabilized with 1,5% ELASTOSIL®AUX Stabilizer H3, post cured 4h/200°C		
Hardness Shore A		77
Tensile strength		5,60 N/mm ²
Elongation at break		190 %

Hot-air ageing at 300 °C after 7 days

ELASTOSIL® R 756/70 crosslinked with 0,7% ELASTOSIL®AUX Crosslinker C1, heat stabilized with 1,5% ELASTOSIL®AUX Stabilizer H3 and 2,0% ELASTOSIL®AUX Stabilizer H6 , post cured 4h/200°C		
Hardness Shore A		80
Tensile strength		5,20 N/mm ²
Elongation at break		140 %

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

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.

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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