





ELASTOSIL® R 406/70 CN

HCR SILICONE RUBBER

Characteristics

ELASTOSIL® R 406/70 CN is fume grade high consistence silicone rubber for general purpose application.

ELASTOSIL® R 406/70 CN could be cured by both peroxide and Platinum catalyst system. Cured articles are noted for the good flexibility and good transparence and elasticity properties. The compounds are easily pigmented with pigment pastes and have a good processing characteristic.

The various grades can be blended in any proportion to achieve intermediate hardness.

Application

Postcured parts can be used for applications in the pharmaceutical and food industries and comply with the recommendations "XV. Silicone" of the BfR and FDA § 177.2600 under observance of any given limitations on extractable and volatile substances.

Processing

ELASTOSIL® R 406/70 CN is designed for both press curing and extrusion application.

For detailed information, please refer to our brochure "Processing ELASTOSIL® R Solid Silicone Rubber".

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 information

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.





ELASTOSIL® R 406/70 CN

Typical general characteristics	Inspection Method	Unit	Typical Value		
Appearance			Transparent		
Specific gravity	DIN EN ISO 1183-1 A	[g/cm ³]	1.19		
Curing Agent E					
Hardness Shore A	DIN 53505 - A	Shore A	70		
Tensile strength	DIN 53504 S1	N/mm ²	10		
Elongation at break	DIN 53504 S1	%	350		
Tear strength	ASTM D 624 B	N/mm	25		
Rebound elasticity	DIN 53512	%	50		
Compression set	DIN ISO 815-B	[%]	23		
	(22 h/175°C)	50.50			
Curing Agent C6					
Hardness Shore A	DIN 53505 - A	Shore A	72		
Tensile strength	DIN 53504 S1	N/mm ²	10		
Elongation at break	DIN 53504 S1	%	420		
Tear strength	ASTM D 624 B	N/mm	25		
Rebound elasticity	DIN 53512	%	50		
Compression set	DIN ISO 815-B	[%]	21		
	(22 h/175°C)	70.70			
Platinum Catalyst	R406/70CN: (AUX 4K-X):(AUX 4K-I): (AUX Batch PT1) = 100:5:2.5:1.5				
Hardness Shore A	DIN 53505 - A	Shore A	72		
Tensile strength	DIN 53504 S1	N/mm ²	9		
Elongation at break	DIN 53504 S1	%	480		
Tear strength	ASTM D 624 B	N/mm	35		
Rebound elasticity	DIN 53512	%	52		
Compression set	DIN ISO 815-B (22 h/175°C)	[%] 12			

Cure conditions

Curing agent		%	Cure	Post-cure
E	50% paste of bis-(2,4-dichlorobenzoyl)- peroxide in silicone fluid	1.5	10 min / 135 ℃	4 h / 200 °C
C1	Dicumyl peroxide (98%)	0.7	15 min / 165 ℃	4 h / 200 °C
C6	45% paste of 2,5-bis-(t-butylperoxy)-2,5-dimethyl- hexane in silicone rubber	1.2	15 min / 165 °C	4 h / 200 °C
PT catalyst	ELASTOSIL® AUX 4K-X, AUX 4K-I, AUX Batch PT1		5 min / 165 ℃	4 h / 200 °C

Curing Agent C6 yields similar values to those obtained with C1.

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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