



ELASTOSIL® R 570/70

ELECTRICALLY CONDUCTIVE HCR SILICONE

Product description

Electrically conductive silicone rubber for press moulding, which are peroxide curing.

Properties

ELASTOSIL® R 570/70 is not suitable for vulcanisation using crosslinker E. The materials are black.

Special features

- good mechanical and electrical properties
- high conductivity
- low volume resistivity
- good heat resistance
- good rheological properties
- combustion products of low toxicity and corrosivity and low smoke density

Application

Control elements for cable accessories, contacts and keypads, interconnectors, electrically conductive rollers, electrodes.

Processing

Press moulding or extrusion and curing by cure vapor (CV).

We recommend running preliminary tests to optimize conditions for the particular application.

Comprehensive processing instructions are given in our leaflet "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

IMPORTANT: in order to produce a ready-to-use-

compound one has to incorporate an increased amount of peroxide.

ELASTOSIL® R 570/70 can be crosslinked with 3.0 % crosslinker C1 or crosslinker C6.

Too low peroxide concentrations lead to insatisfactory processing or scrap.

ELASTOSIL® R 570/70 is crosslinked at T > 170 $^{\circ}$ C.

In order to achieve the optimum electrical properties, it is necessary to post cure for at least 4 h at 200 $^{\circ}$ C after molding. The minimum crosslinking temperature is 170 $^{\circ}$ C.

Contact with solvents or oils (also with silicone fluids) should be avoided, as these results in changes of the electrical conductivity.

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 |
| Hardness Shore A | DIN 53505 | 71 |
| Crosslinker | | C1 or C6 |
| Appearance | | black |
| Density | DIN 53479 | 1,19 g/cm ³ |
| Tensile strength | DIN 53504 S 1 | 6,40 N/mm ² |
| longation at break | DIN 53504 S 1 | 160 % |
| Tear strength | ASTM D 624 B | 13 N/mm |
| Volume resistivity | DIN IEC 93 | 3,6 Ω cm |
| Compression set | DIN ISO 815-B | 29 % |
| | (22 h / 175 °C) | |

All data are obtained after press curing with 1.2 % crosslinker C6.

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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