

ELASTOSIL[®] R 427/70

High Consistency Silicone Rubber (HCR)

ELASTOSIL[®] R 427/70 is a High Strength Base noted for its exceptional transparency excellent tear strength and excellent mechanical properties. ELASTOSIL[®] R 427/70 can be used for extruded profiles. ELASTOSIL[®] R 427/70 vulcanizing characteristics make it possible to achieve short cycle times in the production of molded articles by compression transfer and injection molding. Post-cured vulcanizates can be used for applications in the health care and food handling industries.

Properties

ELASTOSIL[®] R 427/70 contains those ingredients which are suitable for food contact. Under Title 21 "Food and Drugs," Part 177.2600, "Rubber articles intended for repeated use." Because this regulation contains limitations, compliance to the regulation is the responsibility of the user.

Key Characteristics

- Excellent molding qualities
- Excellent tensile strength & tear resistance
- Excellent clarity

Technical data

Properties Cured

Properties obtained after adding 0.5 parts: 2,5-di(t-butylperoxy)-2,5-dimethylhexane (100% active) per 100 parts of base; press cured 10 min/171 °C and post cured 4 h/200 °C

Property	Condition	Value	Method
Appearance	-	transparent	ASTM D 395
Specific gravity	-	1.1 - 1.8 g/cm ³	-
Tensile strength	-	10 mPa	-
Tensile strength	-	1450 psi	-
Elongation at break	-	450 %	ASTM D 412
Tear strength	-	35 kN/m	-
Tear strength	-	200 ppi	-

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

Recommended Curing Agent Levels

- 1.5 parts: 2,4-dichlorobenzoyl peroxide (50% active in silicone paste) per 100 parts of ELASTOSIL® R 427/70.
- 0.7 parts: dicumyl peroxide (98% active) per 100 parts of ELASTOSIL® R 427/70.
- 0.6 parts: 2,5-di(t-butylperoxy)-2,5-dimethylhexane (100% active) per 100 parts of ELASTOSIL® R 427/70.

Packaging and storage

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis 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

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet.

QR Code ELASTOSIL® R 427/70



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

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