

ELASTOSIL[®] R 401/70 OH US

High Consistency Silicone Rubber (HCR)

is a colorless, translucent silicone rubber base noted for its flexibility, high transparency and good mechanical properties. Its vulcanizing characteristics make it possible to achieve rubber moldings by compression, transfer and injection molding. Post-cured vulcanizates can be used for applications in the health care and food handling industries.

Properties

- Excellent mechanical strength
- Excellent clarity
- Excellent molding qualities

Technical data

Properties Cured

Properties obtained by adding 1.5 parts DCBP 50 per 100 parts of base; press cured 10 mins/135 °C and post cured 4h/200 °C.

Property	Condition	Value	Method
Hardness Shore A	-	70	WSTM 1110
Tensile strength	-	1650 psi	WSTM 1160
Specific gravity	-	1.18 g/cm ³	-
Elongation at break	-	400 %	WSTM 1160
Tear strength	-	175 N/mm	-
Rebound resilience	-	53 %	-
Viscosity Mooney	-	67	-

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

ELASTOSIL® R 401/70 OH US is part of a product family that complies with:

21 "Food and Drugs," Part 177.2600, "Rubber articles intended for repeated use."

Recommendation XV. Silicones, BfR

USP 23 Class VI and ISO 10993 for short- term implantation (<30 days).

Processing

Recommended Curing Agent Levels:

1.5 parts: 2,4-dichlorobenzoyl peroxide (50% active in silicone paste).

0.7 parts: dicumyl peroxide (98% active).

1.2 parts: 2,5-di(t-butylperoxy)-2,5-dimethylhexane (45% active).

1.0 parts: dibenzoyl peroxide (50% active).

Packaging and storage

Packaging

ELASTOSIL® R 401/70 OH US Silicone Rubber Base is available in 1,000 lb. boxes.

Storage

ELASTOSIL® R 401/70 OH US has a shelf life of at least 12 months when stored below 32°C in the tightly closed original container. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. However, the properties relevant for the intended use must be verified for quality assurance reasons.

Safety notes

For detailed safety information, please refer to the product Safety Data Sheet.

QR Code ELASTOSIL® R 401/70 OH US



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

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