

# ELASTOSIL<sup>®</sup> R plus 4105/40 US



## High Consistency Silicone Rubber (HCR)

ELASTOSIL<sup>®</sup> R plus 4105/40 US HCR silicone rubbers are addition-curing, two part compounds (batch grades). The vulcanizates show excellent transparency and good to very good mechanical properties. Properly postcured vulcanizates of ELASTOSIL<sup>®</sup> R plus 4105/40 US comply with BfR and FDA food contact regulations. The material also passes USP XXIII Class VI.

## Technical data

### Properties Cured

Properties obtained after mixing ELASTOSIL® R plus 4105/40 and a Curing Agent PT 1 in a ratio of 100: 1.5; press cured 15 min/ 165 °C, and postcured 4 hours/200 °C in vented air.

Property	Condition	Value	Method
Appearance	-	Transparent	-
Specific gravity	25 °C	1.10 - 1.14 g/cm <sup>3</sup>	-
Hardness Shore A	-	40	ASTM D 2240
Tensile strength	-	11	-
Tensile strength	-	1593	-
Elongation at break	-	950 %	-
Cytotoxicity and Heavy Metals testing included with every batch	-	-	-
Tear strength	-	28 kN/m	-
USP XXIII, Class VI	-	Passed	-

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 plus 4105/40 US is intended for fabrication of extruded articles that afford high transparency and very good tear resistance values.

## Processing

ELASTOSIL® R plus 4105/40 US may not be cured with peroxides, only with the catalyst batch ELASTOSIL® AUX PT1.

ELASTOSIL® R plus 4105/40 US and Curing Agent PT 1 are mixed homogeneously on a roll mill in a ratio of 100 : 1.5. Care must be taken to keep the mill and compound as cool as possible during mixing.

The temperature of the rubber should not exceed 35°C, or risk partial curing and reduced pot life. Crosslinking begins when Curing Agent PT 1 has been added. The rate and degree of crosslinking depends on the storage time and temperature.

At 23°C, the mixture has a pot life of about 6-8 hours. This can be extended by storing the catalyzed mixture at a lower temperature.

## 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 plus 4105/40 US



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

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