ELASTOSIL® R plus 4285/30

ELASTOSIL®

High Consistency Silicone Rubber (HCR)

ELASTOSIL® R plus 4285/30 is intended for fabrication of molded articles that afford high elongation and low tension set, like catheter balloons.

Properties

ELASTOSIL® R plus 4285/30 HCR silicone rubber is an addition-curing, two part compound. The vulcanizates show excellent transparancy and good to very good mechanical properties. Properly postcured vulcanizates of ELASTOSIL® R plus 4285/30 should comply with BfR and FDA food contact regulations. The material should also pass USP XXIII Class VI and ISO 10993 standards.

Technical data

Properties Cured

Property	Condition	Value	Method
Appearance	-	Translucent	ASTM D 624
Specific gravity	25 °C	1.1 g/cm^3	-
Hardness Shore A	-	30	ASTM D 2240
Tensile strength	-	7 mPa	-
Elongation at break	-	900 %	ASTM D 412
Tear die B	-	35 kN/m	-
Tension set @ RT	3 d | 400 %	2 - 3 %	-

These figures are only intended as a guide and should not be used in preparing specifications.

Application details

ELASTOSIL® R plus 4285/30 may not be cured with peroxides, but only with the catalyst batch ELASTOSIL® AUX Batch PT 1. ELASTOSIL® R plus 4285/30 and ELASTOSIL® AUX Batch PT 1 are homogenously mixed in a ratio of 100 : 1.5 on a roll mill. Care must be taken to keep the compound cool during mixing. Temperature should not exceed 35°C temperatures reduce the pot life significantly. Crosslinking begins when ELASTOSIL® AUX Batch PT 1 has been added. The rate and degree of crosslinking depend on the storage time and temperature. At 23°C the mixture has a pot life of about 24h. 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 4285/30

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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com