

ELASTOSIL[®] R plus 4806/20 MH



High Consistency Silicone Rubber (HCR)

HTV silicone rubbers of the grade ELASTOSIL[®] R plus 4806/20 MH are oil-bleeding one-component platinum-curing compounds for the manufacture of molded articles. The vulcanizates form a thin oil film with lubricating properties shortly after the curing process. As the crosslinking system is based on platinum cure no peroxide decomposition products can be formed during curing.

Properties

ELASTOSIL[®] R plus 4806/20 MH is a fast curing silicone rubber exhibiting excellent cut resistance. Thanks to addition cure, the vulcanization reaction is significantly faster compared to peroxide curing materials. No peroxide decomposition products are formed during vulcanization.

The addition of heat stabilizers at service temperatures of more than 180 °C is recommended.

Further information about an improvement of the heat stability by use of specific ELASTOSIL[®] AUX Heat Stabilizers can be obtained from the Technical Information Sheet "ELASTOSIL[®] AUX Stabilizers H" or the latest edition of our brochures.

Specific features

- Addition Curing
- Oil bleeding
- One-component

Technical data

Properties Cured

Cure conditions: 15 min / 165 °C in press, post-cured 4 h / 200 °C

Property	Condition	Value	Method
Density	-	1.05 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	23	DIN ISO 48-4
Tensile strength	-	6.3 N/mm ²	ISO 37 type 1
Elongation at break	-	880 %	ISO 37 type 1
Compression Set ⁽¹⁾	22 h 175 °C	14 %	DIN ISO 815-1 type B method A
Compression Set	22 h 175 °C	30 %	DIN ISO 815-1 type B method A
Fluid content	-	approx. 6 %	-
Tear strength	-	15 N/mm	ASTM D 624 B

¹post-cured 4 h / 200 °C

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.

Applications

- Connector Seals

Application details

ELASTOSIL® R plus 4806/20 MH is suitable for the manufacture of molded articles like multi cavity seals for technical applications. Specially thick walled articles can take advantage of this fast curing material.

Processing

This material can be processed on conventional silicone rubber injection molding equipment. Caution, danger of de-activation! The platinum catalyst can be de-activated already by amines or sulphur components in the air.

For detailed information please refer to the latest edition of our brochure "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

Packaging and storage

Packaging

This product is available in 20 kg cardboard packaging.

Storage

Once opened, cardboard boxes should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds. 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>.

QR Code ELASTOSIL® R plus 4806/20 MH



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

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