

HANSA MBC 37180 Mixture of silicones and reinforcing filler for producing condensation crosslinking silicones

Description

CHTs masterbatches are a mixture of silica and a vinyl-group containing polysiloxane. They are mainly used for the production of addition-curing formulations in the field of RTV and LSR. The materials are solvent-free and have a low cyclic (D4-D6) content which is available via the product info or the MSDS.

Key Features

- Containing silica
- Transparent
- Good mechanical properties

Key Applications

- Intermediate for condensation curing formulations

Use and Cure Information

To produce a processable silicone rubber, the masterbatch must be diluted with a vinyl siloxane from the HANSA SFA 4 series. The degree of dilution is determined depending on the desired vulcanizate properties.

The silicone rubber vulcanizes both at room temperature and at elevated temperatures after addition of a platinum catalyst from the ALPA-KAT series and silicone hydride from the HANSA SFA 1 series.

All components should be well mixed to ensure the material is uniform. For best results, we recommend degassing afterwards.

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

These substances may impair or even completely prevent the curing behavior of addition crosslinking silicones typically indicated by tacky surfaces. Therefore, it is important to check the compatibility in preliminary tests if unknown substrates are used.

Health & Safety

Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

CHT Masterbatches are available in a variety packaging including bulk containers. Please contact our customer service department for more information.

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Property

Uncured Product

Color
Cure Type
Non-Volatile Content (%)
Shelf Life
Ultralow cyclic content
Viscosity

Test Method

Brookfield HTBD,
23

Value

Transparent
Condensation
cure
> 99
9 mths
Yes
600000 cP

Cured Product

Density

DIN 53479

1.19 g/cm³

Solubility

Solubility - Water

insoluble

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time.

The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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