

HANSA MBA 37114

Mixture of silicones and reinforcing filler for producing addition 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
- High in silica content
- Good elongation
- High chemical resistance

Key Applications

- Intermediate for addition 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.

Revision Date 29 Apr 2021
Revision No 1
Download Date 06 May 2024

Property

Product

| | | |
|--------------------------|------------|---------------------|
| Color | | Opaque |
| Non-Volatile Content (%) | | > 99 |
| Shelf Life | | 12 mths |
| Ultralow cyclic content | | Yes |
| Vinyl content mmol/g | | 0.072 mmol/g |
| Viscosity | Brookfield | 290000 cP |

Uncured Product

| | | |
|-----------|--|---------------------|
| Cure Type | | Additon cure |
|-----------|--|---------------------|

Cured Product

| | | |
|---------|-------------|------------------|
| Density | BS ISO 2781 | 1.1 g/cm3 |
|---------|-------------|------------------|

Solubility

| | | |
|--------------------|--|------------------|
| Solubility - Water | | insoluble |
|--------------------|--|------------------|

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