TECHNICAL DATA SHEET

HANSA® SFA 65003
Methacryloxy polysiloxane with terminal modification

Description

Products of the HANSA® SFA 65 series are end-capped methacryloxy siloxanes with different molecular weights and viscosities. The reactivity of the methacryloxy-functional polymers can be thermally crosslinked by radical polymerisation as well as by UV formed radicals or directly by EB radiation.

Key Features

- Methacryloxy modified siloxane
- Radical polymerisation with UV or EB radiation
- Crosslinking by standard photoinitiators
- High flexibility in very low temperatures

Key Applications

- Anti-adhesive coatings
- non-migratory plasticizers/cross-linker
- Provides flexibility in low temperature applications
- UV curing applications

Property	Test Method	Value
Product		
Appearance		**clear to slightly turbid oil**
Chemistry		**Methacryloxy functional siloxane**
Color		**clear to slightly turbid**
Density (g/cm³)		**0.97**
Reactivity type		**radical polymerisation, UV or by EB radiation.**
Shelf Life		**12 mths**
Viscosity	Brookfield	**50 cP**
Uncured Product		
Acryloxy content		**0.027 mmol/g**
Storage		
Max Storage Temperature		**30 °C / 86 °F**

Application

HANSA® SFA 65003 has a low surface tension as well as low Tg and very good UV resistance.
In combination with primary or secondary amines from HANSA® SFA 7&8 series, HANSA® SFA 65003 will cross link via Michael addition without catalyst. The Storability in closed containers at room temperature (approx. 20° C) is 12 months.

Use and Cure Information

HANSA® SFA 65 series are reactive silicone components for compounds that are radically polymerised. HANSA® SFA 65 series will readily copolymerise with other acrylate or methacrylate monomers or polymers.
It is suited as base polymer for formulating UV-curing, anti-adhesive coatings on synthetic surfaces as well as natural substrates.
HANSA® SFA 65 series can be cross-linked by standard in market well known photoinitiators.
Particularly useful is this product as non-migratory plasticizers/cross-linker in formulations requiring high flexibility in very low temperatures. This is due to siloxane back bone as well as the mixture of low and relatively high molecular weight siloxane polymers in HANSA® SFA 65 series.

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

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