

## Technical Information

## TEGOSIL® FR 1000 for HCR

TEGOSIL® FR 1000 is a special base to be combined with compounds for cured silicone elastomers especially for high consistency rubber to achieve flame resistance.

## Physical properties

Delivery form	white viscous paste
Density	~ 1.5 g/cm <sup>3</sup>

## Application

TEGOSIL® FR 1000 is used as flame resistance base for industrial articles or HCRs applied on nonwovens for technical applications based on peroxide and addition curing rubber materials. Especially transportation application, e.g. sealants for trains, require elevated FR properties.

## Properties

Mechanical properties of a typical 50 Shore A HCR compound cured with 1.5 % of 2,4 dichlorobenzoyl peroxide (50 % active content) containing 50 % TEGOSIL® FR 1000:

- 350 % elongation@ break
- 4.5 MPa tensile strength
- Shore A hardness level is kept

## Dosage

TEGOSIL® FR 1000 can be used on the double roll mill, during compounding or in a kneader. A good distribution of the product is required.

To achieve an improved flame resistance or even UL 94 V0 classification, a typical dosage lies between 50 % and 70 %. This corresponds to 100 parts HCR base mixed with 100–230 parts TEGOSIL® FR 1000.

## Registration

TEGOSIL® Heatban 1000 is listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, ECL, PICCS, IECSC, NZIOC, NECSI

Based on the submitted information of our raw material suppliers we can confirm, that TEGOSIL® FR 1000 is compliant with EC Regulation 1907/2006 (REACH).

## Storage Stability

TEGOSIL® FR 1000 is stable for minimum 24 months in original packaging at a temperature below 30 °C.

## Packaging

20 kg plastic drum  
250 kg steel drum

## Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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