

Technical Information

TEGOMER® M-Si 2650

TEGOMER® M-Si 2650 is an organo-modified siloxane containing non-reactive aromatic groups.

TEGOMER® M-Si 2650 improves the processing and the performance of polyolefins, engineering resins, thermoplastic elastomers and silicon rubber.

Physical properties

Flash point	> 100 °C
Functional groups	Aromatic groups
Viscosity (25°C)	Approx. 50 mPas
Appearance (25°C)	Slightly coloured liquid
Density	Approx. 0.99 g/cm ³

Application

TEGOMER® M-Si 2650 is used as an additive for:

- thermoplastic elastomers, e.g. TPE-V or TPE-S
- engineering resins such as PS, PBT, PA
- polyolefins
- silicone elastomers

TEGOMER® M-Si 2650 improves the rheological properties during processing, e.g. compounding, extrusion and moulding of parts based on the above-mentioned systems.

TEGOMER® M-Si 2650 improves the surface characteristics of the final parts, e.g. the appearance of resin/fibre mixes.

Benefits

TEGOMER® M-Si 2650 improves the rheological properties of polyolefins, engineering resins and thermoplastic elastomers.

TEGOMER® M-Si 2650 shows additional benefits such as:

- Easier processing
- Higher through-put rates
- Improved mould release properties for injection moulding especially relevant for tacky or low shore hardness elastomers

- Higher surface quality giving better scratch, abrasion and wear resistance, e.g. PMMA & PA
- Reduction of COF in all polymers
- Enhanced hydrophobicity/lower water uptake, e.g. for polyamide
- Reduced tackiness in silicone rubber especially HCR resulting in lower dirt pick up
- Enhancement of flame resistance, e.g. in PA and PBT using phosphorus-based flame retardants

Dosage

The optimum dosage for TEGOMER® M-Si 2650 depends on the formulation and on the required properties. Usually a dosage between 0.2 % and 2.0 % is applied but up to 5 % is in general possible. Masterbatches can be made with higher percentages.

Handling

TEGOMER® M-Si 2650 is supplied as a low-viscous fluid which is introduced either by pre-blending or by directly feeding it to the extrusion line using a liquid dosing pump.

Registration status

TEGOMER® M-Si 2650 is listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, KECL and IECS

Based on the submitted information of our raw material suppliers we can confirm, that TEGOMER® M-Si 2650 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGOMER® M-Si 2650 is stable in closed containers for a minimum of 1 year.

Packaging

50 kg PE-drums (300 kg each pallet)
1 000 kg containers

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.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/Interface-performance

