

## Specialty Additives

|                     | Function        | Chemical Character        | Physical Form | Melting Point [°C] |
|---------------------|-----------------|---------------------------|---------------|--------------------|
| TEGIN® 90           | Antistatic      | Glycerol fatty acid ester | Pellets       | 64-69              |
| TEGO® Sorb PY 88 TQ | Odor Absorbtion | Zincricinoleate           | Pellets       | > 71               |
| TEGO® STS           | Antifogging     | Sorbitan tristearate      | Powder        | > 53               |



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For more detailed information or to obtain a brochure which addresses a specific area of interest, please contact Evonik Goldschmidt GmbH in Essen or contact your local representative.

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# Additives for Masterbatches and Compounds

Product Overview



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## Additives for Compounds

| Product                     | Application    |                      |                 | Polymer types |    |             |         |         |            |      |    |     |         | Melting point [°C] | Type of Siloxane       | Physical form       | Use, Effects & Typical Applications   |   |
|-----------------------------|----------------|----------------------|-----------------|---------------|----|-------------|---------|---------|------------|------|----|-----|---------|--------------------|------------------------|---------------------|---|---|
|                             | Processing aid | Surface Modification | Bulk properties | PE/ EVA       | PP | PA or PA/GF | PET/PBT | TPE/TPU | ABS/PS/SAN | PMMA | PC | PVC | Helmelt |                    |                        |                     |   |   |
| <b>Property enhancement</b> |                |                      |                 |               |    |             |         |         |            |      |    |     |         |                    |                        |                     |   |   |
| TEGOMER® AntiScratch 100    | ○              | ●                    | ●               |               | ●  |             |         | ●       |            |      |    |     |         |                    | > 70                   | Polyolefin compound | Granule   | Scratch resistance for PP/TPO compounds, e.g. dash-boards, door panels, airbag covers                                 |
| TEGOMER® AntiScratch 200    | ●              | ●                    | ●               |               |    | ●           | ○       |         |            |      |    |     |         |                    | > 70                   | Polyamide compound  | Granule   | Scratch resistance of PA, antigreyish of PA/glass fibre, e.g. door handles, ski boots, housing for electronics        |
| TEGOMER® AntiScratch L      |                | ●                    | ●               |               | ●  |             |         | ●       |            |      | ○  |     |         |                    | n.a.                   | Alkyl               | Liquid  | Demoulding + scratch resistance in PP, TPEV and SEBS, for proper processing, advanced dosing & mixing system required |
| TEGOMER® H-Si 6440 P        | ●              | ●                    | ●               | ○             | ●  | ●           | ●       | ●       | ○          | ●    | ●  | ●   | ●       | 54                 | Copolyester            | Pellet              | Antiscratch for technical polymers, e.g. PMMA TV frames, PC/ABS pillars, COF reduction & better demoulding of TPEs, e.g. SEBS based air bag covers                      |   |
| TEGOMER® FR 100             | ●              | ●                    | ●               | ●             | ●  |             |         | ●       |            |      |    |     |         | > 70               | Polyolefin compound    | Granule             | Smooth surfaces & printability of highly filled EVA & x-PE cable compounds (ATH & MDH)  |   |
| TEGOMER® M-Si 2650          | ○              | ●                    |                 |               |    |             | ○       | ●       | ○          | ○    | ●  |     |         | n.a.               | Aryl                   | Liquid              | COF reduction of TPEs, e.g. automotive sealants, scratch resistance of PC/ABS, PET, e.g. car interiors, electronics, furniture surfaces                                 |   |
| TEGOMER® PP-Si 401          | ●              | ○                    | ●               |               | ●  | ○           | ●       | ○       |            |      |    |     |         | 160                | Polyolefin compound    | Granule             | Reduced cut propagation in PET and PP straps/bents.   |   |
| TEGOMER® V-Si 4042          | ●              | ●                    | ●               | ●             | ●  |             |         | ●       | ○          |      |    | ○   |         | n.a.               | Vinyl                  | Liquid              | LOI and flame retardance enhancing for ATH & MDH filled compounds, improved mar/abrasion resistance, e.g. highly filled HFFR cables                                     |   |
| TEGOPREN® 6846              | ●              | ○                    | ●               | ●             | ●  |             |         | ○       | ○          | ●    | ●  | ○   | ○       | 64                 | Alkyl                  | Pellet              | COF reduction of polyolefin films   |   |
| <b>Reactive Siloxanes</b>   |                |                      |                 |               |    |             |         |         |            |      |    |     |         |                    |                        |                     |   |   |
| TEGOMER® A-Si 2322          |                | ●                    | ●               |               |    | ●           |         | ●       |            |      |    |     | ●       | n.a.               | Amino, bifunctional    | Liquid              | Use as functional macro monomer, transfer of unique siloxane properties to standard polymers, e.g. scratch resistance, low Tg or high impact resistance, hydrophobicity |   |
| TEGOMER® C-Si 2342          |                | ●                    | ●               |               |    | ●           |         |         |            |      |    |     | ○       | n.a.               | Carboxyl, bifunctional | Liquid              |   |   |
| TEGOMER® E-Si 2330          |                | ●                    | ○               |               |    | ●           |         | ○       |            |      |    |     | ●       | n.a.               | Epoxy, bifunctional    | Liquid              |   |   |
| TEGOMER® H-Si 2311          |                |                      | ●               |               |    | ○           |         | ●       |            |      |    |     | ○       | n.a.               | Hydroxy, bifunctional  | Liquid              |   |   |

● = highly recommended ○ = suitable n.a. = not applicable



## Dispersing Additives

| Product                   | Pigments and fillers |                  |              |         | Masterbatches and compounds    |   |                                |                               | Applications |                  |                            | Liquid pastes              |               |                      |                    | Polymer types |    |     |    |           |          |     |          |           |                 |   |
|---------------------------|----------------------|------------------|--------------|---------|--------------------------------|---|--------------------------------|-------------------------------|--------------|------------------|----------------------------|----------------------------|---------------|----------------------|--------------------|---------------|----|-----|----|-----------|----------|-----|----------|-----------|-----------------|---|
|                           | Inorganic pigments   | Organic pigments | Carbon black | Fillers | Monomasterbatches <sup>1</sup> | Multiple pigment masterbatches <sup>2</sup> | Colored compounds <sup>3</sup> | Filler compounds <sup>4</sup> | Moulding     | Film application | Fibre/ Filament production | Phthalate / Adipate pastes | Polyol pastes | Vegetable oil pastes | Mineral oil pastes | PE / EVA      | PP | POM | PA | PET / PBT | ABS / PS | PVC | PU / TPU | Silicones | Unsaturated PES |   |
| <b>Masterbatches</b>      |                      |                  |              |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           |          |     |          |           |                 |   |
| TEGOMER® E 525            | ●                    | ●                | ●            | ●       | ●                              | ●   | ○                              | ●                             | ●            | ●                |                            |                            |               |                      | ●                  | ○             | ●  |     |    |           | ●        |     |          |           |                 |   |
| TEGOMER® P 121            | ●                    | ●                | ●            | ●       | ●                              | ●   | ●                              | ●                             | ●            | ●                | ●                          |                            |               |                      | ●                  | ●             | ○  | ●   | ●  | ●         | ●        |     |          |           |                 |   |
| TEGOMER® P 161            | ○                    | ○                | ○            | ●       |                                |   | ○                              | ●                             | ●            | ●                |                            |                            |               |                      | ●                  | ●             |    |     |    |           |          |     |          |           |                 |   |
| <b>Colorants</b>          |                      |                  |              |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           |          |     |          |           |                 |   |
| TEGOMER® DA 626           | ○                    | ●                | ●            |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           |          |     |          | ●         | ●               | ● |
| TEGOMER® DA 646           |                      | ●                | ●            |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           |          |     |          |           | ○               | ● |
| TEGOMER® DA 100 N         | ○                    | ●                | ●            | ○       |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           | ○        | ○   | ●        |           |                 | ○ |
| TEGOMER® DA 800           | ○                    | ●                | ●            |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           | ●        | ●   |          |           | ○               |   |
| TEGO® STO V               | ○                    | ●                | ●            |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           | ●        | ●   |          |           |                 |   |
| TEGO® STO 85 V            | ●                    | ●                | ●            |         |                                |   |                                |                               |              |                  |                            |                            |               |                      | ●                  | ●             | ●  | ●   |    |           | ○        | ●   |          |           |                 |   |
| <b>Surface treatments</b> |                      |                  |              |         |                                |   |                                |                               |              |                  |                            |                            |               |                      |                    |               |    |     |    |           |          |     |          |           |                 |   |
| TEGOPREN® 6875            | ●                    | ●                | ●            | ●       | ●                              | ○   | ●                              | ●                             | ●            | ○                |                            |                            |               |                      | ●                  | ●             |    | ●   | ●  | ○         |          |     |          |           | ●               |   |
| TEGOPREN® 6875-45         | ●                    | ●                | ○            | ●       | ●                              | ○   | ●                              | ●                             | ●            |                  |                            |                            |               |                      | ●                  | ●             |    | ●   | ●  | ○         |          |     |          |           |                 |   |
| TEGOPREN® 5885            | ●                    |                  |              | ●       |                                |   | ●                              | ●                             | ●            |                  |                            |                            |               |                      | ●                  | ●             |    |     |    |           |          |     |          |           |                 |   |

● = highly recommended ○ = suitable

<sup>1</sup> Single pigment masterbatches, high pigment loading.

For fibre, film and automotive.

<sup>2</sup> Different pigments used for customized colors, combination with fillers. For moulding and general purpose applications.

<sup>3</sup> Low concentration of pigment directly dispersed during compounding.

<sup>4</sup> Inorganic materials, e.g. chalk, talc, antimony trioxide with high to very high loading (40-85%).

