

## Rubber Auxiliaries

### Functions & Chemical Types

**Factices** based on rape and castor oil - brown, yellow, white, peroxide and other

**Plasticizers** - peptizators, phthalates (dioctyl, diisobutyl, diisononyl, diisodecyl, paraffin and naphthen oils, calophony and vegetable oils, special plasticizers (phosphate, polymeric), non-phthalate plasticizers

**Dispersing agents** - zinc and non-zinc

**Peroxides**, trade name Luperox

**Sulphur preparations** and sulphur donors

**Silane Filler Activators** (coupling agents)

**Flame retardants** - antimony trioxide, ATH, chlorinated paraffin

**Homogenisers** and tackifying resins - hydrocarbon resins, PIB

**Antioxidants and antiozonants** - Octamine, MMBI, IPPD, TMQ

**Antiozonant waxes**

**Vulcanisation activators** - stearic acids, zinc oxides

**Desiccants** vulcanisation stabilisers amd other additives

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## Additives

| Functions & Chemical Types           | Trade Name Family | DESCRIPTION   |
|--------------------------------------|-------------------|---|
| <b>Flame Retarders</b>               | Sidistar          | From Elkem (Nordic)   |
| <b>Masterbatches</b>                 |                   |   |
| White                                |                   | Base LDPE, LLDPE, PP Up to 70 % TiO <sub>2</sub> , also with additives (Nordic) |
| Black                                |                   | Base LDPE, LLDPE, GPPS Up to 50 % Carbon Black, also with additives (Nordic)    |
| Coloured                             |                   | Base LDPE, PP, PP also with additives (Nordic)                                  |
| <b>Pigments</b>                      |                   |   |
| Organic Pigments                     | Kenalake          | Brenntag Colours (Nordic)   |
| Polymer Soluble Dyestuffs            |                   | (Nordic)  |
| Titanium Dioxide (TiO <sub>2</sub> ) | TiPure            | From Chemours (SE , FIN)  |
| Titanium Dioxide (TiO <sub>2</sub> ) | Tikon             | From Tikon (Nordic)   |
| Inorganic Pigments                   | Premier           | Ultramarine Blue from Holliday Pigments (Nordic)                                |

### ■ Product Manager

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### Plasticizers

|  |        |  |
|--|--------|--|
| Diisononyl phthalate (DINP)                      |        | From Evonik (Nordic)   |
| Di iso decyl Adipate (DIDA)                      |        | From Ineos (Nordic)  |
| Di iso tridecyl Adipate (DTDA)                   |        | From Ineos (Nordic)  |
| Dioctyl adipate (DOA)                            |        | From Ineos (Nordic)  |
| Tri-2-ethylhexyl Trimellitate (OTM)              |        | From Ineos (Nordic)  |
| Tri-2-ethylhexyl Trimellitate (OTM Stabilised I) |        | From Ineos (Nordic)  |
| Tri-Linear 8/10 Trimellitate ( L810TM)           |        | From Ineos (Nordic)  |
| Tri-Linear 8/10 Trimellitate (L810TM Stabilised) |        | From Ineos (Nordic)  |
| Tri-Linear 8 Trimellitate (L8TM)                 |        | From Ineos (Nordic)  |
| Di-2-ethylhexyl Sebacate (DOS)                   |        | From Ineos (Nordic)  |
| Di iso decyl Sebacate (DIDS)                     |        | From Ineos (Nordic)  |
| Di-2-ethylhexyl Sebacate (DOS)                   |        | From Ineos (Nordic)  |
| <b>Conductive Carbon Black</b>                   | Ensaco | Electrically Conductive Plastics, power cables and accessories<br>From Imerys-Graphite Black             |
| <b>Graphite and coke</b>                         | Timrex | Self-lubricating polymers, Filled PPFEE and Thermally conductive<br>Polymers. From Imerys-Graphite Black |

## Polymers

### Functions & Chemical Types

#### Syntetic Rubber

Styrene-butadiene rubber (SBR)

Ethylene-propylene rubber (EPDM)

Isoprene rubber (IR)

Solution styrne-butadiene rubber (SSBR)

Butadiene rubber (BR)

Acrylonitrile-butadiene rubber (NBR)

Nitrile rubber modified with polyvinyl chloride (NBR/PVC)

Isobutylene-isoprene rubber (butyl rubber) (IIR)

Thermoplastic rubber (TPE)

#### Natural Rubber

Natural rubber (NR)

Natural rubber (NR) / Latex

## Solvents and standard chemicals

Wide range of organic and incorganic solvents applied in rubber processing and a complete offer of standard chemicals

Wide range of products for watertreatment and water purification

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