Rubber Auxiliaries

Functions & Chemical Types

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

**Plasticizers** - peptizators, phthalates (dioktyl, diisobutyl, diisononyl, disodecyl, paraffin and naphten 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 amid other additives

**Peroxides**, trade name Luperox

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**Antiozonant waxes**

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

**Desiccants** vulcanisation stabilisers and others

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### Additives

**Functions & Chemical Types**

<table>
<thead>
<tr>
<th></th>
<th>Trade Name Family</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame Retarders</td>
<td>Sidistar</td>
<td>From Elkem (Nordic)</td>
</tr>
<tr>
<td>Masterbatches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td></td>
<td>Base LDPE, LLDPE, PP Up to 70 % TiO2, also with additives (Nordic)</td>
</tr>
<tr>
<td>Black</td>
<td></td>
<td>Base LDPE, LLDPE, GPPS Up to 50 % Carbon Black, also with additives (Nordic)</td>
</tr>
<tr>
<td>Coloured</td>
<td></td>
<td>Base LDPE, PP, PP also with additives (Nordic)</td>
</tr>
<tr>
<td>Pigments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic Pigments</td>
<td>Kenalake</td>
<td>Brenntag Colours (Nordic)</td>
</tr>
<tr>
<td>Polymer Soluble Dyestuffs</td>
<td>TiPure</td>
<td>From Chemours (SE, FIN)</td>
</tr>
<tr>
<td>Titanium Dioxide (TiO2)</td>
<td>TiPure</td>
<td>From Tikon (Nordic)</td>
</tr>
<tr>
<td>Titanium Dioxide (TiO2)</td>
<td>Tikon</td>
<td></td>
</tr>
<tr>
<td>Inorganic Pigments</td>
<td>Premier</td>
<td>Ultramarine Blue from Holliday Pigments (Nordic)</td>
</tr>
</tbody>
</table>

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Plasticizers

<table>
<thead>
<tr>
<th>Plasticizer</th>
<th>Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diisononyl phthalate (DINP)</td>
<td>From Evonik (Nordic)</td>
</tr>
<tr>
<td>Di iso decyl Adipate (DIDA)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Di iso tridecyl Adipate (DTDA)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Dioctyl adipate (DOA)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Tri-2-ethylhexyl Trimellitate (OTM)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Tri-2-ethylhexyl Trimellitate (OTM Stabilised)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Tri-Linear 8/10 Trimellitate (L810TM)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Tri-Linear 8/10 Trimellitate (L810TM Stabilised)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Tri-Linear 8 Trimellitate (L8TM)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Di-2-ethylhexyl Sebacate (DOS)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Di iso decyl Sebacate (DIDS)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Di-2-ethylhexyl Sebacate (DOS)</td>
<td>From Ineos (Nordic)</td>
</tr>
<tr>
<td>Conductive Carbon Black</td>
<td>Ensaco</td>
</tr>
<tr>
<td>Graphite and coke</td>
<td>Timrex</td>
</tr>
</tbody>
</table>

Conductive Carbon Black

- Ensaco: Electrically Conductive Plastics, power cables and accessories from Imerys-Graphite Black
- Timrex: Self-lubricating polymers, Filled PFFEE and Thermally conductive Polymers. From Imerys-Graphite Black

Polymers

**Functions & Chemical Types**

**Synthetic Rubber**

- Styrene-butadiene rubber (SBR)
- Ethylene-propylene rubber (EPDM)
- Isoprene rubber (IR)
- Solution styrene-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 inorganic 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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