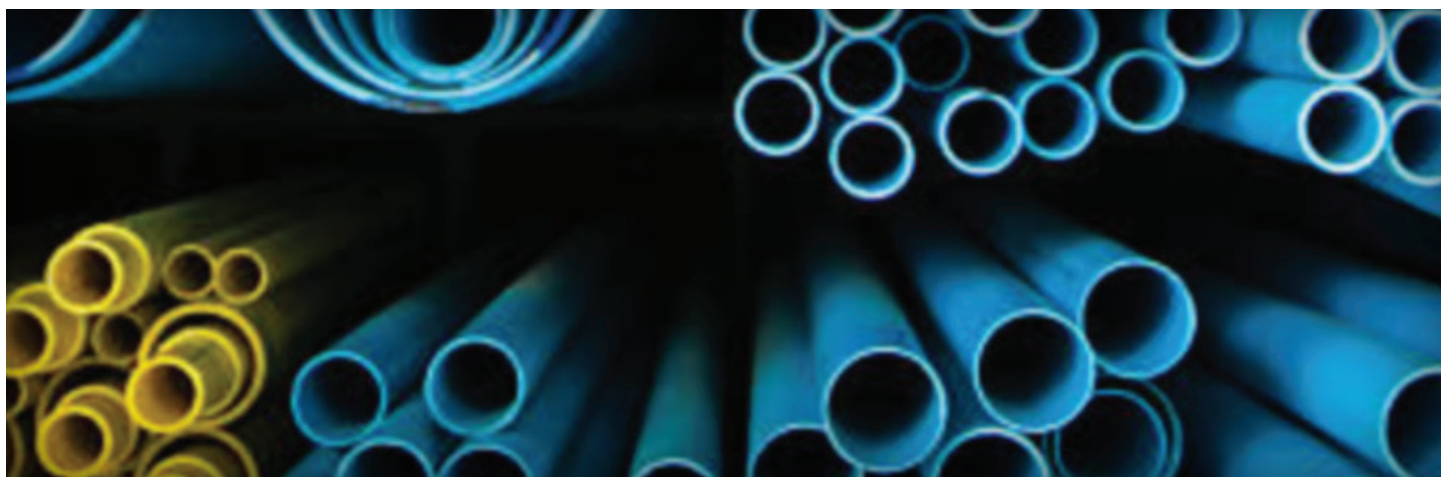


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## PLASTICS, PVC, RUBBER & FOAM

We supply the PVC, plastics, rubbers and foam industries with a variety of specialty resins, fillers, stabilizers, plasticizers, flame retardants, pigments, extenders and other additives. A comprehensive range of grades is available with density, sizing and surface treatment characteristics tailored to specific requirements.

## FLAME RETARDANTS

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### **Aluminium Hydroxide**

Aluminium hydroxide, also known as aluminium trihydrate is an effective flame-retardant filler in plastic and rubber production. It has high heat absorption and good thermal stability. We supply a variety of grades of aluminium hydroxide with a wide range of particle sizes.

### **Ammonium Polyphosphate Phase II (APP-II)**

APP-II is a halogen free fire retardant used in a variety of plastics. At temperatures above 300 °C APP-II decomposes to polyphosphoric acid which dehydrates polyols, carbohydrates and other ROH and RNH containing substances. Subsequently, the generated char is expanded by water and ammonia to form a foamed up solid heat protective barrier.

### **Decabromodiphenylethane (DBDPE)**

DBDPE is a broad-spectrum flame retardant. It is non-toxic, non-corrosive and can be used in systems where recycling is anticipated. It has good thermal stability and UV resistance.

### **Magnesium Hydroxide**

Magnesium hydroxide, also known as magnesium dihydrate is an effective flame-retardant filler in plastic and rubber production. It has high heat absorption and good thermal stability. We supply two grades - stearic acid coated (GS 1.5) and uncoated (G 5).

### **Zinc Borate**

Zinc borate is used as a flame retardant and smoke suppressant in PVC, epoxy and other polymers, most notably in flexible PVC. It is a halogen free flame retardant. Zinc borates that can be customized to your desired specifications.

## PVC STABILIZERS

### Tin Heat Stabilizers

Tin Heat Stabilizers are a clear liquid composed of a methyl tin mercaptide. They provide excellent early color retaining and holding ability, transparency, weathering resistance, thermal stability and workability. It can be used in all forms of PVC production, it can be used in processes such as extrusion, injection molding, calendaring, blow molding and many more. We offer a variety of tin stabilizer concentrations.

### PVC Plasticizers (benzene free)

#### Benzene-Free Plasticizer

Benzene-Free Plasticizer is primarily composed of DINCH. It is used as a primary plasticizer in the manufacture of products composed of PVC and other polar polymers. It has excellent compatibility, stability and machinability, low volatility and low migration.

#### Dibasic Ester

Dibasic esters are a liquid composed of a mixture of dicarboxylic acids. Dibasic esters are excellent plasticizers in the production of PVC and other polymers, they also provide low-temperature flexibility. Dibasic esters are non-flammable, readily biodegradable, non-corrosive and have excellent solvency. We supply DBE 5 and other grades are available upon request.

#### Dibutyl Fumarate

Dibutyl fumarate is used as an high purity internal plasticizer in the processing of PVC and other polymers. It is used as a comonomer in the production of a variety of polymers such as polystyrene.

#### Diocetyl Terephthalate (DOTP)

Diocetyl terephthalate, also known as DOTP, is used as a plasticizer in the production of PVC and other copolymers. DOTP can be used as a direct replacement for DOP and DINP in a range of applications due to its thermal resistance, excellent durability and transparency. It is used in a variety of processes such as calendaring, extrusion and injection molding.

### Environmentally Friendly Plasticizer (A2)

Environmentally Friendly Plasticizer (A2) is composed of a chemically modified plant oil ester that has excellent compatibility with PVC and can be used in all PVC products. It is used as an auxiliary plasticizer; it is typically used to replace 20% of the primary plasticizer. Environmentally Friendly and suitable to partially replace DOP, DIDP, DINP, DINCH and DPHP.

### Epoxidized Soybean Oil (ESBO)

Epoxidized soybean oil, also known as ESBO, is used as a plasticizer and heat and light stabilizer in the production of PVC and other copolymers. It is used in a variety of processes such as calendaring, extrusion and injection molding.

### Di(2-Propylheptyl) Phthalate (DPHP)

Di(2-propylheptyl) phthalate, also known as DPHP, is used as a plasticizer in the production of PVC and other copolymers. DPHP can be used as a direct replacement for DEHP and DINP in a range of applications due to its thermal resistance, excellent durability and transparency. It is used in a variety of processes such as calendaring, extrusion and injection molding.

### Tri-Octyl Trimellitate

Tri-Octyl Trimellitate, also known as TOTM, is used as a plasticizer in the production of PVC and other copolymers. TOTM is ideal when low volatility is required such as wiring, cabling and automotive interior. It can be blended with other general-purpose plasticizers such as DUP or DOTP to lower volatility. It is used in a variety of processes such as calendaring, extrusion and injection molding.

### Chlorinated Paraffin

Chlorinated paraffins are used as secondary plasticizers for PVC. Chlorinated paraffins have flame retardant properties, offer high chemical stability and moisture resistance, however they are limited by their thermal stability. We offer a wide range of chlorinated paraffins.

### Optical Brighteners

OPTI Optical Brighter and whitening agent It can be used for whitening PE, PP, PVC, ABS, PA, PC and other plastics. Its dosage is low, adaptability is strong, and good dispersibility. Environmentally friendly and economical.

## RESINS

**PVC Resin**

Polyvinyl chloride (PVC) resin is a white powder typically used to produce thermoplastics. PVC can be rigid and flexible, resulting in its use in a wide range of products. We offer a variety of grades.

## FILLERS

**Calcium Carbonate (Coated and Uncoated)**

Calcium Carbonate has a high purity and ultrafine particle size, providing excellent dispersion. It is an excellent filler for polymers including PVC, polyurethane and polyesters. Its addition improves the strength of the polymer matrix, helps disperse other additives and increases the weathering resistance of the polymer. We offer both a technical grade (uncoated) and coated (surface modified stearic acid).

**Sensowhite**

Sensowhite is a high purity surface treated jet-milled barium sulfate that is an easily dispersible functional filler and titanium dioxide extender. It is suitable for a variety of plastics and inks. We offer various grades based on particle size.

**Pigments**

Titanium Dioxide

Titanium dioxide is used as a white pigment or an opacifier in a variety of products including dry mixes, plastics, paints and coatings. The addition of titanium dioxide results in excellent durability, UV resistance, whiteness, tint strength and gloss. We offer both anatase and rutile.

## ACRYLIC IMPACT MODIFIERS

**Impact AM Series**

We have a full range of acrylic impact modifiers which are signed to increase the product surface gloss, improve the product anti-aging properties, especially suitable for outdoor products of PVC and related products.

## LUBRICANTS

**Calcium Stearate**

Calcium Stearate is a white powder or aqueous dispersion that is used as an internal lubricant and acid scavenger in processing PVC and other thermoplastics. It enhances the rheology of the polymer by reducing melt viscosity and friction. It neutralizes acids such as hydrochloric acid that can be released from PVC, prolonging the life of the plastic

**Ethylene Glycol Distearate (EGDS)**

Ethylene Glycol Distearate is a white flake that is used as an internal lubricant in processing PVC and other thermoplastics. It enhances the rheology of the polymer by reducing melt viscosity and friction during extrusion, calendaring and injection molding.

**Paraffin Wax**

Paraffin wax is used as an external lubricant in the production of PVC. It is easily spread, improves the flow properties of PVC and results in easier removal of PVC from molds. It can be used during extrusion and injection molding.

## OTHER ADDITIVES

**2-Ethylhexanoic Acid (EHA)**

2-Ethylhexanoic Acid (EHA) and its metal salts are used in the production of PVB plasticizers and PVC stabilizers. EHA can be renewably produced. We supply a high purity EHA containing over 99.5 % EHA.

**Metakaolin**

Metakaolin is used as an acid scavenger and insulating additive in PVC cable sheathing. Metakaolin has good dispersibility, volume resistivity, aging resistance and brightness. We supply a variety of Metakaolin grades available upon request.

**PGGE Polyol**

PGGE Polyol, also known as Polypropylene Glycol Glyceryl Ether, is a trifunctional polyether polyol. PGGE Polyol is used in the production of many polyurethane formulations including foams and fibers.

**PPG Polyol**

PPG Polyol, also known as Polypropylene Glycol, is a high performance, bifunctional polyether polyol. PPG Polyol is used in the production of many polyurethane formulations including foams and fibers.



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