



ALLCOMP

EFFICIENCY COMPOUNDED



Compounds manufacturer

TPE
Thermoplastic elastomer

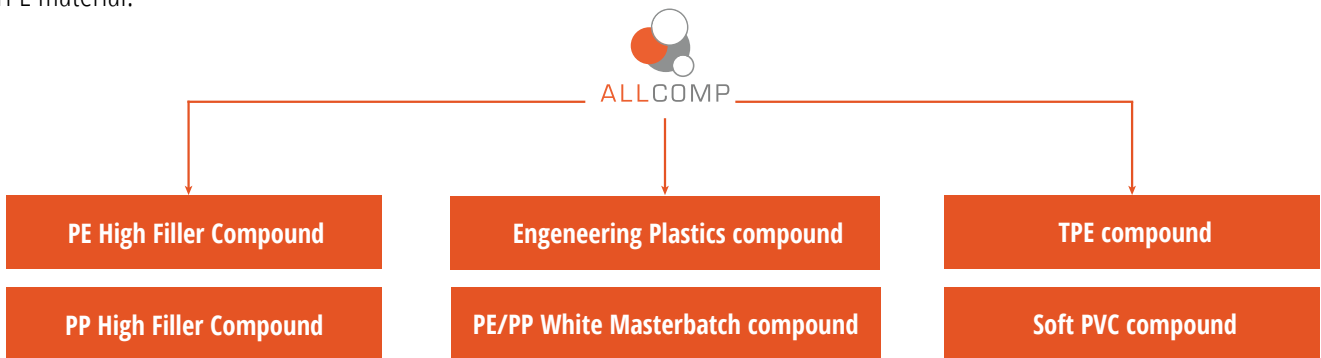
Engineering
Plastics

PP PE
PE/PP High filler compound

ALLCOMP is a Ukrainian innovative manufacturer of modern high-tech compounds. The most powerful Ukrainian plant for the production of TPE granules and compounds, which are used in various areas of activity: construction, pharmaceuticals, automobile productions and others.

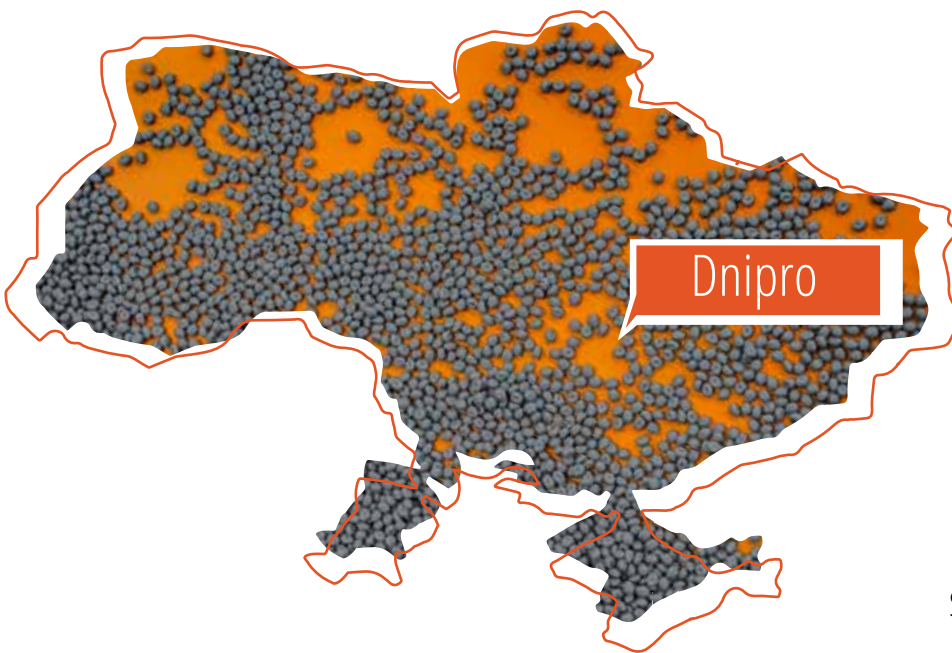
ALLCOMP production is a complex of automated lines that allow you to get impeccable quality and high productivity. This is the first company that uses innovative equipment from German and American manufacturers, which has analogues there is none in Ukraine. Already at the start of production in 2017, the company's specialists achieved a productivity of 30-40 tons per day. The total plant capacity is 20 000 tons per year.

The main products of ALLCOMP production are compounds made of polyethylene, polypropylene and calcium carbonate, as well as TPE material.



ALLCOMR production is equipped with the most technological and high-speed extruders. Quality of raw materials and finished products are controlled in the company's own laboratory. Having serious ambitions and plans in the market, the company ALLCOMP constantly invests in the development of production facilities and expansion of laboratory equipment.

The company's office, sales department, laboratory and production complex are located in Dnipro.



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ALLCOMP, Dnipro, Ukraine

TPE

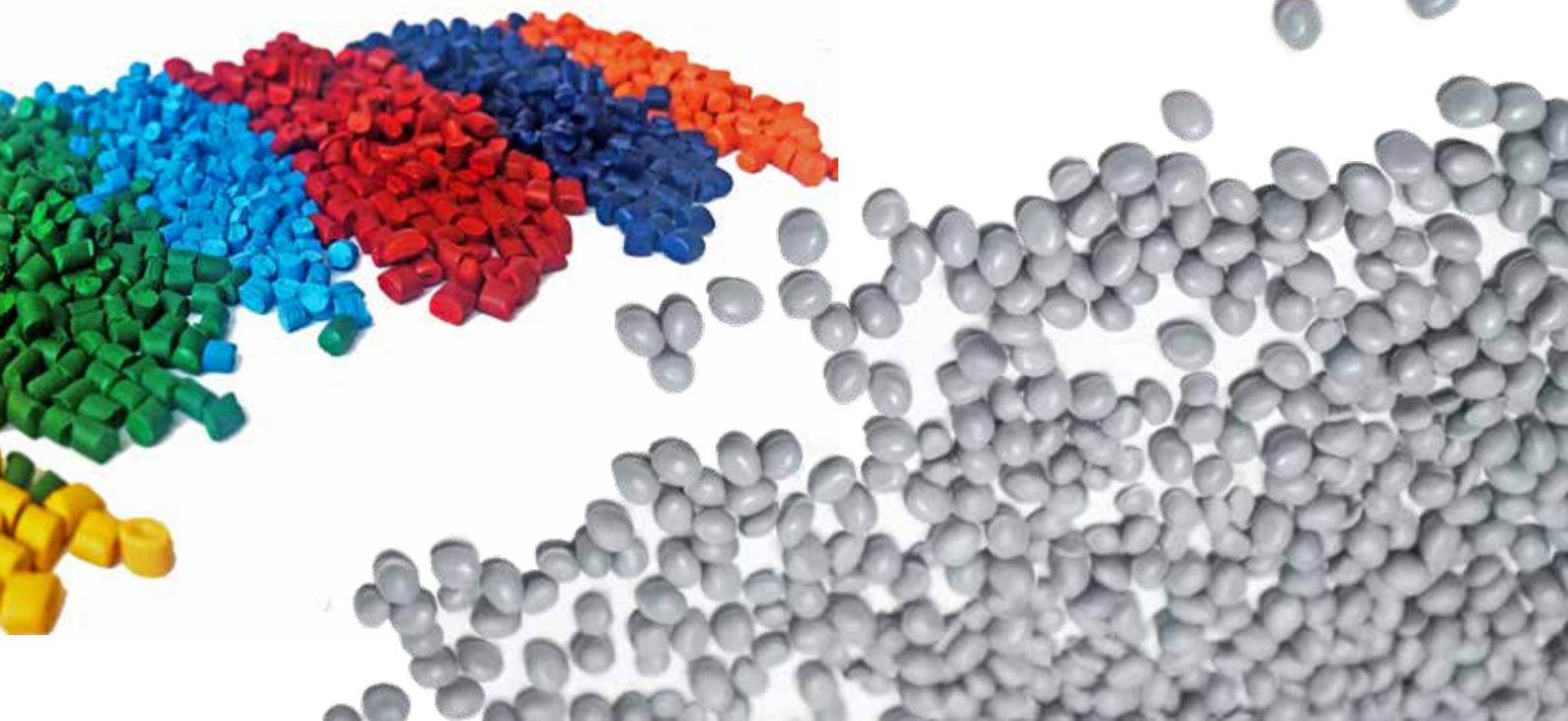
Thermoplastic elastomer

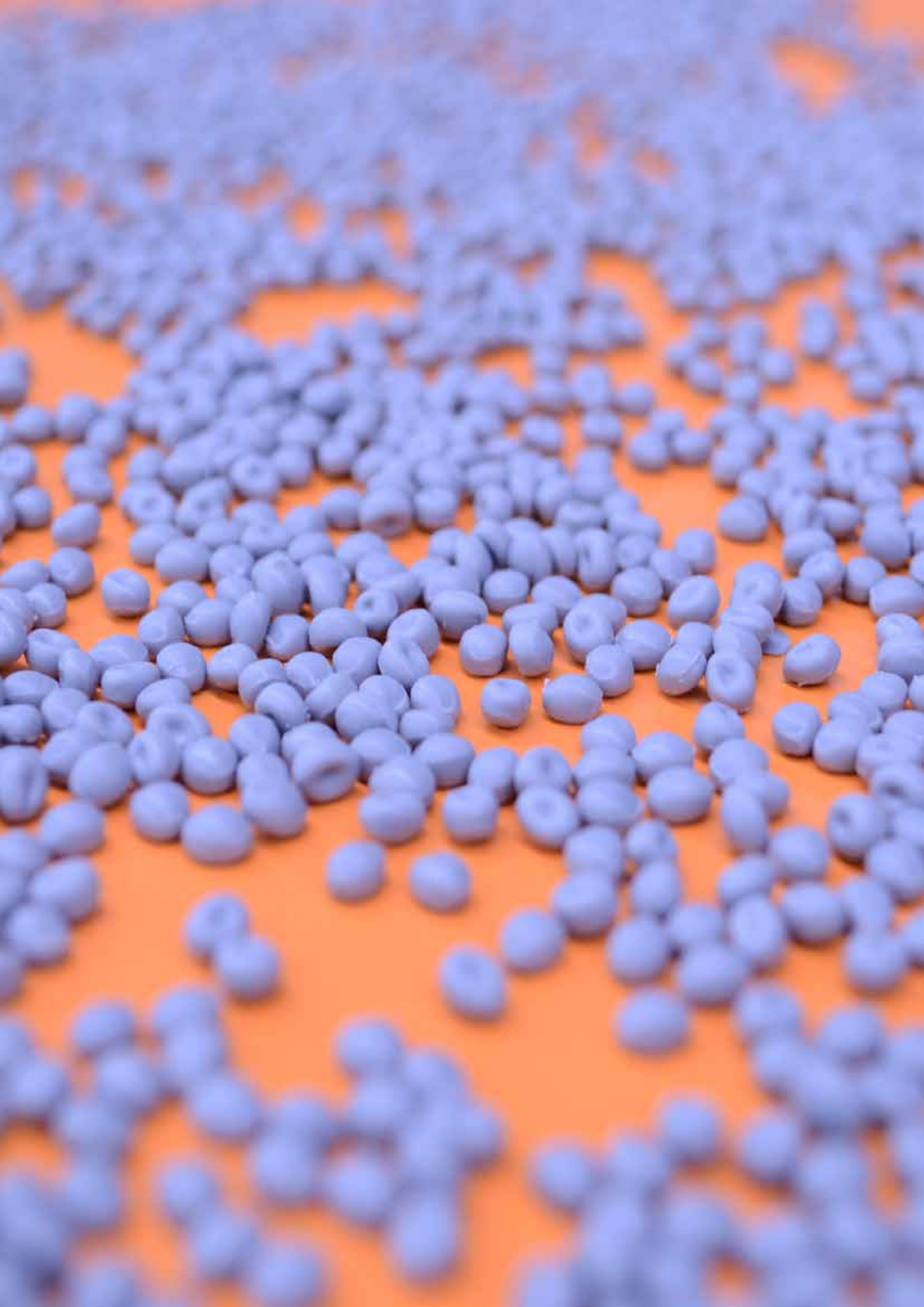
TPE - the common name of thermoplastic elastomers, also called thermoplastic rubbers. Thermoplastic elastomers show advantages typical of both rubbery materials and plastic materials. This is a rubber-like material that can be processed using thermoplastics technologies such as injection molding, two-component molding or extrusion.

Thermoplastic elastomers (TPE) are compounds made from thermoplastics materials such as Polypropylene (PP) and other polymers, combined with a soft rubber material. All combinations of hard and soft grades of TPE have properties similar to rubber, and differ only levels of heat resistance, chemical resistance and flexibility, as well as the ability to recover after removal load (residual deformation during compression).

The main advantages of thermoplastic elastomers include easier conversion (and lower energy consumption compared to thermoplastics) using traditional ones thermoplastic technologies, such as injection molding, extrusion, hot forming, blow molding formation, etc. TPE have outstanding thermal properties and material stability when exposed to a broad range of temperatures and non-polar materials.

In addition, TPE can be easily dyed and transformed into various thermoplastics with good sticking and welding together.





Areas of product application

TPE

Thermoplastic elastomer



Construction

(sealings for windows, doors, furniture, solar panels and pipes)



For shoe soles

(TPR and light TPE)



Automotive

(car mats and mud flaps, air ventilation tube, no slip dash pad, air spring, suspension and steering control)



Electrical

(cable insulation and sheathing, flame retardant, plugs and sockets, buttons and switches, no slip pads)



Consumer products

(o-ring for pipes, USB electronic data cable, soft handles)



Household products

(toothbrush handles, washing machine pipe connectors, lid and seals for food boxes)



Toys and Pet toys



Engineering Plastics

Glass filled polypropylene

This material is created by adding a glass fiber filler to a polypropylene matrix, which results in increased strength and stability.

Key advantages of glass fiber-reinforced polypropylene:

Strength and Rigidity: The glass fiber filler makes polypropylene stronger and more rigid, allowing for the production of parts that withstand loads.

Heat Resistance: Glass fiber-reinforced polypropylene has high thermal resistance, making it suitable for manufacturing parts exposed to high temperatures.

Chemical Resistance: It is resistant to chemicals, which can be crucial for automotive parts interacting with different environments.

Low Weight: Using glass fiber-reinforced polypropylene helps reduce the weight of automotive parts, contributing to lower fuel consumption and CO2 emissions.

In the automotive industry, glass fiber-reinforced polypropylene is used for manufacturing various parts:

Interior Panels: Instrument panels, consoles, seat upholstery.

Engine and Suspension Components: Sensor housings, suspension bushings.

Bumper and Trim Parts: Exterior trim, protective elements.

In the furniture industry, glass-filled polypropylene becomes an integral part of producing various furniture, including:

Chairs and armchairs: Glass-filled polypropylene is used to create sturdy and comfortable frames for chairs and armchairs, providing reliable support and long-lasting service.

Tables: From lightweight individual tables to large dining tables, glass-filled polypropylene ensures stability and durability.

Furniture accessories: Furniture accessories, such as table legs, decorative elements, and fasteners, are also made from this material.

Wheels for office chairs and furniture: Glass-filled polypropylene is used to create high-strength wheels, allowing easy movement of office chairs and furniture without any effort.

Thanks to its characteristics, glass fiber-reinforced polypropylene helps produce reliable, lightweight, and durable parts. Its use enhances safety and ensures high performance in the automotive and furniture industry.

Engineering Plastics

Glass filled polyamide

Glass-filled polyamide is one of the important engineering plastics that finds wide application in the automotive industry due to its unique properties. It is a polymer to which glass fiber reinforcement is added, increasing its strength and durability.

Key characteristics of glass-filled polyamide:

Strength and Rigidity: The added glass fiber reinforcement significantly enhances the material's strength and rigidity, making it ideal for automotive applications.

Heat Resistance: Glass-filled polyamide exhibits high thermal resistance, allowing it to be used in high-temperature conditions.

Chemical Resistance: It is resistant to various chemical substances, which is important for automotive components exposed to aggressive environments.

Weight Reduction: Using glass-filled polyamide helps reduce the weight of automotive parts, contributing to improved fuel efficiency and reduced CO2 emissions.

In the automotive industry, glass-filled polyamide is used to manufacture various components

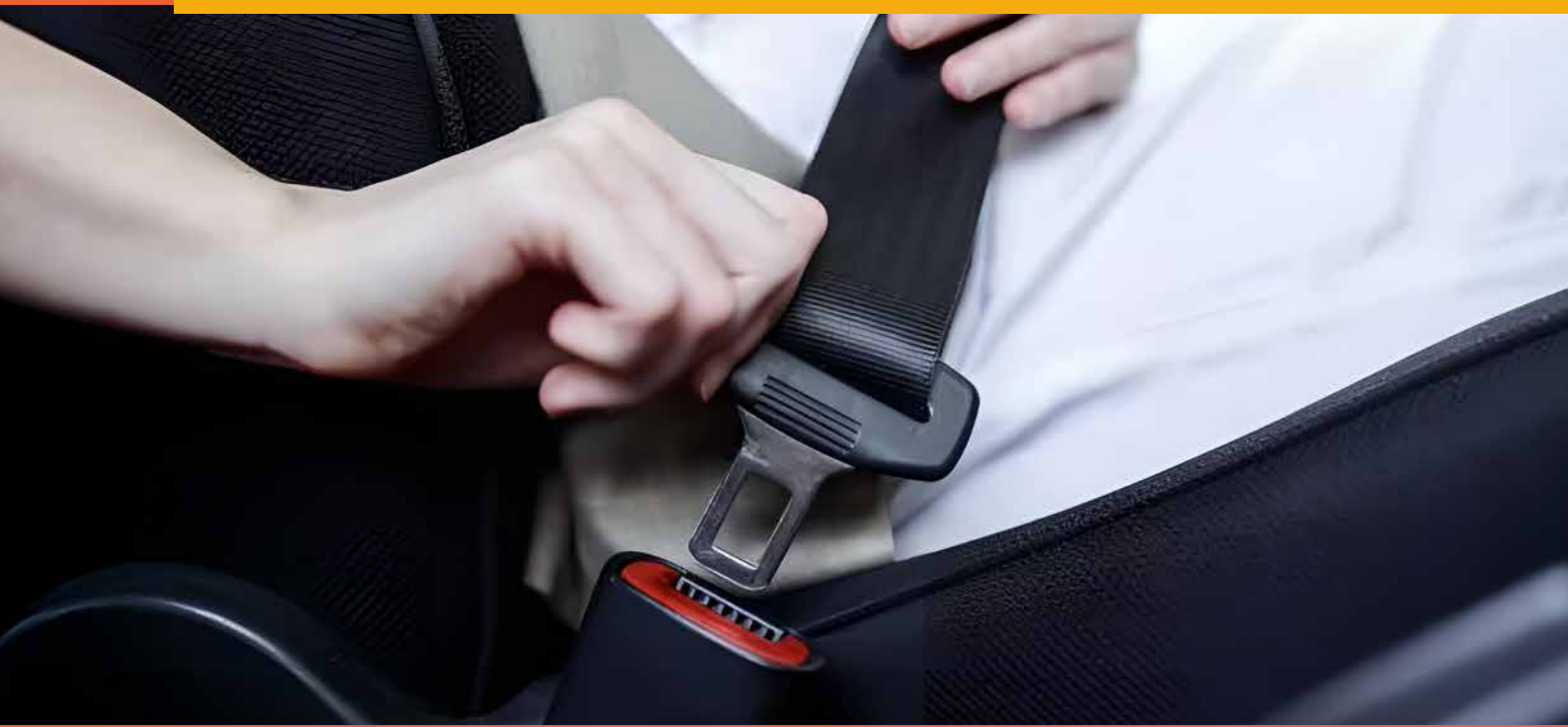
Body Parts: Streamlining, kick panels, bumpers, interior paneling.

Engine and Suspension: Filter housings, suspension bushings, sensor housings.

Interior Components: Instrument panels, interior upholstery, seat adjustment elements.

Thanks to its unique properties, glass-filled polyamide helps enhance safety, reduce weight, and improve the performance of automotive components, making it an indispensable material for the automotive industry.

Glass-filled polyamide possesses unique properties that enable the creation of stylish and functional furniture. It combines strength and wear resistance, making it ideal for the furniture industry. Furniture made from this material is known for its reliability, lightweight design, and resistance to external influences, allowing for the creation of comfortable and durable furnishings for both homes and offices.





PE/PP High filler compound

High filler compound is a composition of fine dispersed CaCO_3 and a binder polymer, as polypropylene or polyethylene is used. The compound is used in industry production as a basis for the production of products with improved operational characteristics. In particular, this high filler compound reduces environmental pollution in the process production and disposal.

High filler compound is used in the production process of fabric materials, ribbons, bags, twine, threads, sheets, disposable dishes made of polypropylene, flat and sleeve films made of polyethylene, pipes, cast and blown products from polypropylene and polyethylene.

High filler compound can be used during the production of water polyethylene pipes. The input percentage depends on the average size particles specified in the passport. And the smaller the size of the chalk particles, the a higher percentage of chalk can be added to the polymer.

Calcium carbonate CaCO_3 is chalk, limestone, marble. The density of each type of calcium carbonate is approximately the same - from 2.2 chalk to 2.6 limestone, marble.

Determining indicators for obtaining products from plastics with high mechanical properties are the size and shape of mineral particles filler, as well as its hardness. The smaller the particle size, the more streamlined shape, the higher the adhesion of particles and polymer. The higher the hardness particles, the higher the strength and rigidity of the product, its framework.

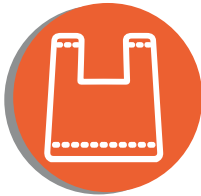




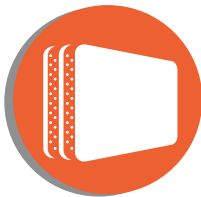
Areas of product application

PP PE

PE/PP High filler compound



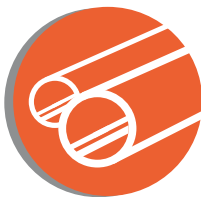
Packaging and films



Aluminium composite panels (Flame retardant)



Bags for packing



Plastic pipes and profile



Blow molding products



Injection molding products





PP/PE White masterbatch compound

PP/PE White masterbatch compound contain high quality titanium dioxide (TiO₂). The type of titanium dioxide used in each the product is selected according to the requirements of the intended application for the production of various products. The titanium dioxide creates the desired product opacity, while the choice of resins, TiO₂ grade, fillers and extenders determines the quality and compounding costs.

Dispersion quality is probably the most important parameter of a masterbatch, as it determines the color strength obtained from the pigments. Also, better dispersion quality minimizes the down time of the users' production equipment for filter cleaning or replacement.

Quality of pigment dispersion is assured by the excellent compounding capability of our extruders and the continuous melt filtration that retains any oversized particles and foreign matter.

Dispersion quality is controlled at the lab either by optical evaluation of blown film or by the filter pressure value test, depending on the application.

The standard range covers a wide spectrum of applications including extrusion, blown and cast film, blow and injection molding. Tailor made products can be formulated on request.



ALL COMP



Reasons to apply White masterbatch compound

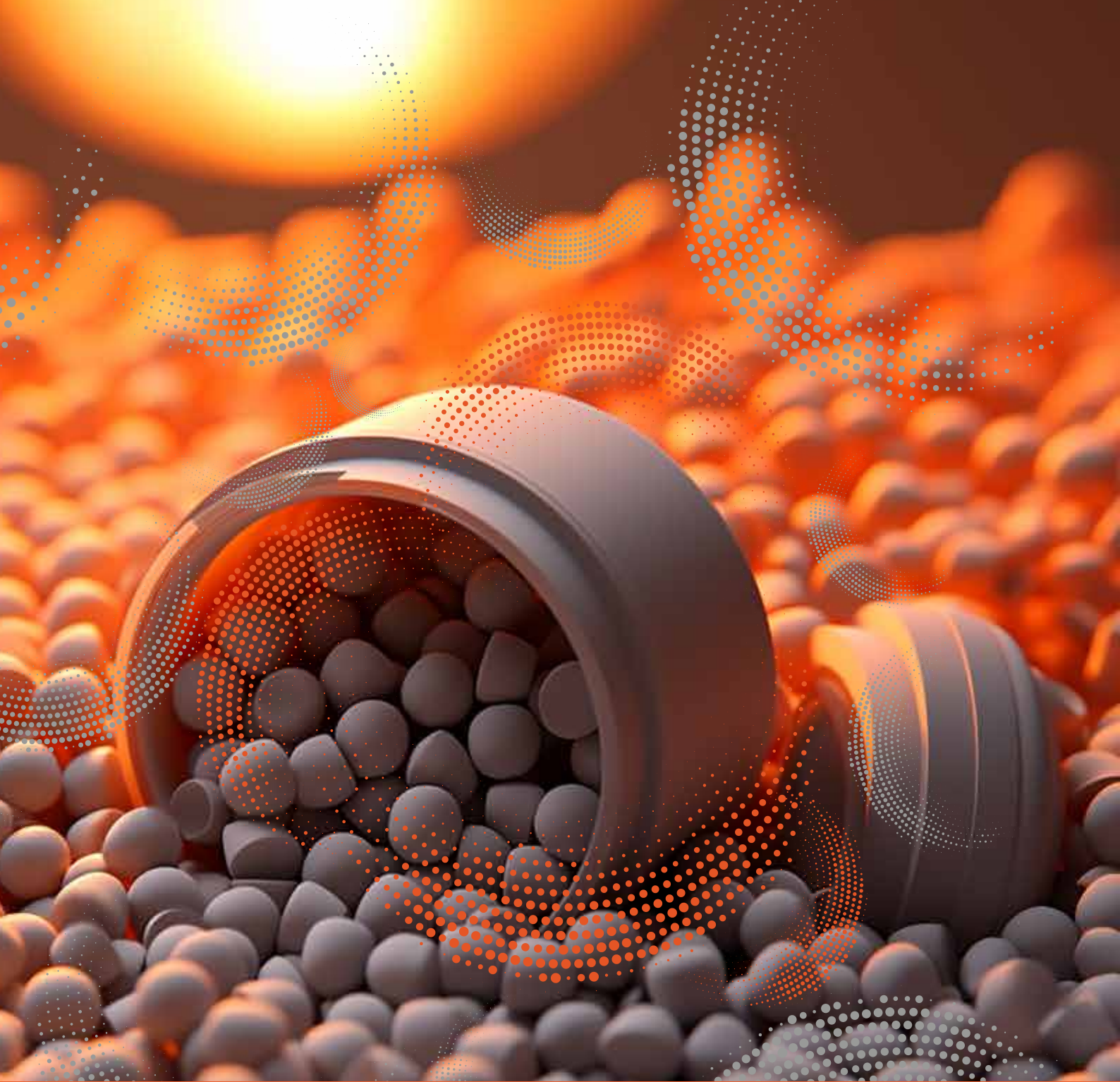


PP/PE White masterbatch compound

- **White masterbatch compound provides high level whiteness of the products.**
- **Enhance high opacity and gloss.**
- **Due to the high quality properties of titanium dioxide ensures long-term UV stability.**
- **Possesses high coloring properties of the product.**
- **Allows to reduce colorant content in the recipe.**



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