

FNX KİMYA SANAYİ VE TİCARET LİMİTED ŞİRKET - Technical solutions future!

FNX KİMYA SANAYİ VE TİCARET LİMİTED ŞİRKET is a technology company that unites manufacturing, engineering and trading companies in the field of creating new generation polymeric materials.

FNX KİMYA SANAYİ VE TİCARET LİMİTED ŞİRKET is the company has been producing Ethylene Vinyl Acetate (EVA) compounds, SEBS/SBS thermoplastic copolymers and compounds based on synthetic and natural rubbers since 2012.

Thermoplastic compositions are rapidly conquering the market, replacing traditional materials such as PVC, rubber, latex, polyurethane. Thermoplastic elastomers are unique polymeric materials that are actively used for the manufacture of products in various industries: automotive, cable industry, medical industry, etc.

With a modern laboratory, we are able to offer not only smart ready-made solutions, but also to create completely new ones in the shortest possible time materials for the specific specifics of your project. Availability of pilot units innovation allows to reduce the time of introduction of new developments into production.

You can rely on consistently high product quality as well as short flexible and flexible delivery times, walking distance. Working with each consumer telecom, bypassing the chains of distributors, we provide the maximum level service and technical support to each client. Collaboration in the field development of new products guarantees success in solving any problems.

Trade marks:

Fenixduo®

Fenixgen®

Fenixupra®

Fenixtab®

Fenixtar®

Fenixtiv®

Fenixin®

Fenixtan®

Fields of application of compounds

Window, door, industrial seals

Electronics and home appliances

Furniture fittings

Components for cars and agricultural machinery; car mats

Waterstops

Anti-slip systems

Construction tools and inventory

Modification of propylene, high-impact polystyrene

Kids toys

Telecommunication cables

Power cables

Mounting cables

Control cables

Ship cables

Railway cables

Some brands of optical cable

Low and medium voltage cables

Cabling and wiring products for controlling conveyor and lifting equipment we eat, gaskets for security and fire alarm systems and signal wires

In power supply systems of metro lines

Shoes: garden shoes, beach shoes, sandals, sports shoes, boots, galoshes, components (soles, insoles, etc.)

Tire tread compounds

Insulation compounds

Compounds for vulcanizing diaphragms

Tire carcass compounds

Tire sidewall compounds

Fenixduo®
compounds based on thermoplastic polymers SEBS\SBS

Fenixduo® W

thermoplastic elastomers for the production of cable products

The use of modern non-toxic components, a wide range hardness from 40 units. Shore A up to 50 units Shore D, excellent elasticity, low brittleness temperature, resistance to aggressive environments, as well as suitability for repeated processing - all these are undeniable advantages thermoplastic elastomers of the **Fenixduo® W** family.

The flexible cable, made using the **Fenixduo® W** compound, is intended for operation in conditions of frequent alternating mechanical loads in combination with exposure to aggressive media and intense UV radiation during permissible heating temperature of conductive conductors up to 75C.

Advantages:

- UV, ozone and weather resistance;
- - Brittleness temperature -60 0 C;
- - Resistance to thermal degradation;
- - High manufacturability;
- - The possibility of multiple processing without a significant reduction in performance;
- - Wide operating temperature range from -60 C to +75 C.

Fenixduo® W-100

Fenixduo® W-200

Fenixduo® W-300

Fenixduo® W-400

Fenixduo® W-500

Fenixduo® W-600

Fenixduo® W-700

Fenixduo® W-800

Fenixduo® W-900

Areas of application:

Telecommunication cables; Power cables; Mounting cables; Control cables; Ship cables; Railway cables; coaxial cables; Some brands of optical cable; Low and medium voltage cables; Cabling and wiring products for controlling conveyor and lifting equipment we eat, gaskets for security and fire alarm systems and signal wires; In power supply systems of metro lines;

Fenixduo® C

thermoplastic elastomers for the production of technical products

The **Fenixduo® C** trademark combines a wide range of compositions general purpose based on hydrogenated styrene block copolymers (HSBS). Materials brand **Fenixduo® C** due to the peculiarities of the composition and structure deniya, combine the ease of processing of polyolefins and high elastic rubber wear. Due to the absence of unsaturated bonds in the structure of the main block copolymer, **Fenixduo® C** compositions have excellent resistance to both UV radiation and atmospheric exposure during long-term operation ration period.

Fenixduo® C has the following characteristics:

Excellent UV, ozone and weather resistance;

- A wide choice of hardness from 30 Shore A to 45 Shore D;
- High thermal stability;
- Density from 0.9 to 1.2 g/cm³ - Ease of staining with pigment pastes and masterbatches;
- Low compression deformation at high temperatures;
- Wide operating temperature range from -60°C to +110°C;
- Individual rheological characteristics for each processing process;
- High elasticity.

Fenixduo® C-100

Fenixduo® C-200

Fenixduo® C-300

Fenixduo® C-400

Fenixduo® C-500

Fenixduo® C-600

Fenixduo® C-700

Fenixduo® C-800

Fenixduo® C-900

Areas of application:

Window, door, industrial seals; Electronics and home appliances; Furniture fittings; Components for cars and agricultural machinery; car mats; Waterstops; Anti-slip systems; Construction tools and inventory; Cable insulation; Modification of propylene, high-impact polystyrene; Kids toys.

Fenixduo® S

thermoplastic elastomers for the footwear industry

The **Fenixduo® S** trademark includes a wide range of high quality molding compositions based on SBS and SEBS rubbers. Thanks to the specific alternating structure of the styrene block copolymer, which is part of the composition positions, materials of the **Fenixduo® S** brand possess not only high rates - mi strength and wear resistance, but also high elasticity.

Fenixduo® S compositions have the following features:

- Hardness range from 35 to 85 Shore;
- Maintaining high elasticity even at low temperatures;
- Wide operating temperature range from -40°C to +70°C;
- High manufacturability and the possibility of recycling;
- Density from 0.9 to 1.06 g/cm³
- High resistance to attrition at observance of storage conditions;
- Does not require pre-drying.

Fenixduo® S-100

Fenixduo® S-200

Fenixduo® S-300

Fenixduo® S-400

Fenixduo® S-500

Application area:

Galoshes; Boots; Soles for footwear of various directions.

Fenixduo® M

vulcanized thermoplastic materials

Fenixduo® M brand materials have been specially developed for dynamic and static operation at elevated temperatures environment. The basis of these compositions is dynamically linked styrene block copolymer (SEEPS) . Chemical crosslinking of modified end styrene blocks, causes high resistance of materials to oils and solvents, as well as very low compressive strain values at high temperatures.

Fenixduo® M has the following properties:

Operating temperature up to 140 oC;
Excellent UV and ozone resistance;
Scratch resistance;
High physical and mechanical characteristics;
Resistant to oils and solvents;
Low residual deformation;
High dimensional stability at positive temperatures.

Fenixduo® M — 100V

Fenixduo® M — 200

Fenixduo® M — 300V

Fenixduo® M — 400

Fenixduo® M — 500V

Fenixduo® M — 600

Fenixduo® M — 700V

Application area:

Details of the engine compartment of cars; Appliances; Construction; Electronics; Sports.

Fenixgen®
EVA based compounds

Fenixgen® F

footwear compounds

Fenixgen® F is a polymer compound based on copolymers of ethylene with vinyl acetate volume. It is an environmentally friendly product, which allows it to be used in various directions. Fenixgen® F meets today's market needs and requirements processes in the production of lightweight footwear.

The special material structure of **Fenixgen® F** guarantees resistance to environmental influences such as UV rays, salt, dirt and dust.

Advantages:

- High resistance to aging;
- Wide choice of hardnesses and expansions;
- Rich colors;
- Environmentally friendly material;
- Resistance to temperature difference;
- High physical and mechanical properties;
- Lightness;
- Comfort and aesthetics;
- High frost resistance (the material remains elastic at -30 ° C);
- Low thermal conductivity (shoes can be worn in the cold season);
- Glossy or matte surface;
- Water resistance;
- High dimensional stability at positive temperatures.

Fenixgen® F-100

Fenixgen® F-200

Fenixgen® F-300

Fenixgen® F-400

Fenixgen® F-500

Fenixgen® F-600

Fenixgen® F-700

Fenixgen® F-800

Fenixgen® F-900

Fenixgen® F-900A

Application area:

Shoes: garden shoes, beach shoes, sandals, sports shoes, boots, galoshes, components (soles, insoles, etc.); Technical applications; Furniture; Toys; Clothing and security accessories; Souvenir products; Sports equipment accessories.

Fenixupra ®
compounds based on synthetic and natural rubbers for the tire
industry

Page under construction