INDUSTRIAL RUBBER PRODUCTS PLANT "KAUCHUK"
The rubber compound is a mixture of the main polymer(s), fillers and other chemicals that form a finished rubber material. More precisely, the term "rubber compound" refers to a specific mixture of ingredients adapted to the specific characteristics necessary to optimize performance under specific conditions. The basis for the complex development of the formulation of the rubber compound is the choice of the type of polymer.

In addition to the elastomer, reinforcing agents such as carbon black, color pigments, curing agents, activators, plasticizers, accelerators, antioxidants or antiradiation additives are added to the rubber compound. There are hundreds of such combinations.
BRIEF LIST OF RUBBER COMPOUNDS PRODUCED BY JSC "KAUCHUK" AND THEIR APPLICATION FIELDS:

- Oil resistant rubber compounds, application field - manufacture of molded and reinforced industrial rubber products;
- Amortization rubber compounds, application field - manufacture of rubber products, shock absorbers, brake pipes;
- Rubber compounds with increased atmospheric and ozone-resistance application field - manufacture of industrial rubber products;
- Rubber compounds for gumming of chemical equipment, application field - shaft lining;
- Rubber compounds for general technical purposes, application field - production of industrial rubber goods, footwear, tires;
- Repairing rubber, thickness 1.5 - 2 mm (rolls) for gluing of inner tubes.
- Rubber compounds for manufacture of high-pressure hoses
- Rubber compounds with high wear-resistant characteristics
- Rubber compounds by individual customer requirements, development of new recipes
WE PRODUCE RUBBER COMPOUNDS BASED ON THE FOLLOWING RUBBER:

- NBR (Nitrile Butadiene Rubber)
- EPDM (Ethylene-Propylene-Diene Rubber)
- NR (Natural Rubber)
- SBR (Styrene Butadiene Rubber)
- BR (Butadiene Rubber)
- CR (Chloroprene Rubber)
NITRILE BUTADIENE RUBBER

IT IS USED IN THE AUTOMOTIVE AND AERONAUTICAL INDUSTRY TO MAKE FUEL AND OIL HANDLING HOSES, SEALS, GROMMETS AND SELF-SEALING FUEL TANKS. NBR’S ABILITY TO WITHSTAND A RANGE OF TEMPERATURES FROM −40 TO 108 °C (−40 TO 226 °F) MAKES IT AN IDEAL MATERIAL FOR AERONAUTICAL APPLICATIONS.

Basic characteristics
Temperature range, °C: -35/+120
Shore A hardness: 35-95
Tensile strength, MPa: 10-30
Mooney viscosity (100 °C): 40-63
ETHYLENE-PROPYLENE-DIENE RUBBER

The main properties of EPDM are its outstanding heat, ozone, and weather resistance. The resistance to polar substances and steam are also good. It has excellent electrical insulating properties. It has good resistance to ketones, ordinary diluted acids, and alkalis.

Basic characteristics
Temperature range, °C: -50/+120 (150)
Shore A hardness: 30-95
Tensile strength, MPa: 10-25
Mooney viscosity (100 °C): 44-80
NATURAL RUBBER

NATURAL RUBBER (NR) HAS A LONG FATIGUE LIFE AND HIGH STRENGTH. NR RUBBER HAS ACCEPTABLE TEMPERATURE RESISTANCE (+90 °C) AND CAN MAINTAIN FLEXIBILITY DOWN TO -50 °C. THE MAIN USE OF NR IS IN THE TIRE INDUSTRY, VIBRATION ABSORPTION AND ALL SORTS OF VARIOUS MOULDED PARTS.

Basic characteristics
Temperature range, °C: -57/+104
Shore A hardness: 30-95
Tensile strength, MPa: 15-39
Mooney viscosity (100 °C): 40-82
STYRENE BUTADIENE RUBBER

These materials have good abrasion resistance and good aging stability when protected by additives. It is a commodity material which competes with natural rubber. SBR is widely used in tires, shoe soles, gaskets. It maintains flexibility at lower temperatures.

Basic characteristics
Temperature range, °C: -50/+110
Shore A hardness: 40-95
Tensile strength, MPa: 10-30
Mooney viscosity (100 °C): 48-54
BUTADIENE RUBBER

Polybutadiene is a synthetic rubber that has a high resistance to wear and is used especially in the manufacture of tires. It is also used to manufacture golf balls, various elastic objects and to coat or encapsulate electronic assemblies, offering high electrical resistivity.

Basic characteristics
Temperature range, °C: 0-8
Shore A hardness: 40-90
Tensile strength, MPa: 10-25
Mooney viscosity (100 °C): 44-62
CHLOROPRENE RUBBER

Polychloroprene exhibits good chemical stability and maintains flexibility over a wide temperature range. It’s used in a wide variety of applications, such as laptop sleeves, orthopedic braces, electrical insulation, elastomeric membranes or flashings and automotive fan belts.

Basic characteristics
Temperature range, °C: -40/+110
Shore A hardness: 30-95
Tensile strength, MPa: 10-30
Mooney viscosity (100 °C): 51-58
WHY CHOOSE RUBBER COMPOUNDS
BY "KAUCHUK" PLANT

- **New line**
  High-tech production of rubber compounds on the newest mixing line with a high degree of automation

- **High performance**
  The physicomechanical characteristics of our rubber compounds exceed the requirements of normative technical standards for quality

- **Control**
  100% automatic control of the rheological characteristics of rubber compound in each batch with the provision of test results in a clear graphical and tabular forms

- **Production culture**
  Application of a high-quality separation emulsion (Germany) as a release agent prevents the rubber compounds from sticking together and improves the production culture

- **Individual approach**
  Individual work with customers, consulting and development of the original composition of rubber compounds with the necessary requirements

- **Innovations**
  Monthly work is carried out to develop new recipes for rubber compounds.

- **More than 20 years of experience**
  Real practical experience in the use of several thousand components, innovative materials of world leaders in this field.

- **Delivery type**
  Delivery in the form of sheets and tapes of various thickness, cutting of rubber compounds according to the customer's request (width, length), automatic marking
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