



## LOW DENSITY POLYETHYLENE *ROPOTEN®* AND *ROPOTEN® T* CABLE GRADES

### Specification

| №  | PROPERTY                                                          | Unit              | Value by grade     |             |              | Test method    |
|----|-------------------------------------------------------------------|-------------------|--------------------|-------------|--------------|----------------|
|    |                                                                   |                   | KB-02-208          | K-12-208-61 | K-12-110-065 |                |
| 1. | Melt flow rate at 190 °C and loading 2,1kg                        | g/10 min          | 0,20-0,40          | 0,25-0,50   | 0,20-0,50    | ASTM D 1238-94 |
| 2. | Density at 23 °C not less than                                    | kg/m <sup>3</sup> | 919                | -           | -            | ISO-1183-95    |
| 3. | Tensile strength, not less than                                   | MPa               | 5,5                | 15,0        | -            | ASTM D 638-94  |
| 4. | Relative elongation at break, not less than                       | %                 | 600                | 550         | 400          | ASTM D 638-94  |
| 5. | Vicat softening point, not less than                              | ° C               | 90                 | 90          | 90           | ASTM D 1525-91 |
| 6. | Dielectric constant at 10 <sup>6</sup> Hz, not higher than        | -                 | 2,50               | -           | -            | BDS 10086-82   |
| 7. | Angle of dielectric losses at 10 <sup>6</sup> Hz, not higher than | -                 | 3.10 <sup>-4</sup> | -           | -            | BDS 10086-82   |

### Product description

Pellets with length 2 to 6 mm. The availability of pellets with length up to 9 mm and powder like particles for not than 1,7% of production, as well as of fiber like formations up to 0,3% is not considered to be a deviation from the requirements of sizes determined. Cable grades are manufactured as natural polymer and black compound.

### Production method

#### **Cable grades on Ropoten® basis**

Polymerization of ethylene in autoclave reactors at high pressure and average temperatures in the presence of indicators organic peroxides.

#### **Cable grades on Ropoten®T basis**

Polymerization of ethylene in a tubular reactor under high pressure and average temperatures in the presence of initiator oxygen.

### Application

For insulation and coating of cables.

### Package

Polyethylene bags (natural or milky-white), each with a mass of material 25±0,090kg

### Storage

Covered, dry and clean warehouses, protected from direct sunlight.

### Transportation

Covered, clean and dry vehicles, which prevent moisture, mechanical damages and impurities.