

| Polymer     | Characteristics                 | Application        | Quality | Product Number |
|-------------|---------------------------------|--------------------|---------|----------------|
| polyamide 6 | PA6 reinforced with glass fibre | injection moulding | prime   | 917000         |

| Properties (in natural colour at 23°C) | Unit              | Test Method         | Value     |
|--|-------------------|---------------------|-----------|
| <b>General</b>                         |                   |                     |           |
| Symbols and abbreviated terms          |                   | STN EN ISO 1043-1   | PA 6      |
| Density                                | g/cm <sup>3</sup> | STN EN ISO 1183-1   | 1,37      |
| Type of the filler: GF, GB, MF, G      |                   |                     | GF        |
| Stabilisation: TS, LS, K               |                   |                     |           |
| Modification: FR, HI, MI, ME           |                   |                     |           |
| Colour: NA, F, BK                      |                   |                     | NA/F      |
| <b>Processing</b>                      |                   |                     |           |
| Processing method: IM, E               | °C                |                     | IM        |
| Melting point DSC                      | °C                | STN EN ISO 11357-1  | 220       |
| Melt temperature range                 | °C                |                     | 250-280   |
| Mould temperature range                | °C                |                     | 70-90     |
| Injection pressure                     | MPa               |                     | 70-120    |
| Drying: temperature/time               | °C/H              |                     | 80/4      |
| Water content                          | %                 | STN EN ISO 3344     | 0,15      |
| Melt flow rate 230°C/2,16 kg           | g/10 min          | STN EN ISO 1133     | 3         |
| Manufacturing shrinkage length / width | %                 | STN EN ISO 294-4    | 0,55/0,98 |
| <b>Mechanical</b>                      |                   |                     |           |
| Tensile strength                       | MPa               | STN EN ISO 527-2    | 180       |
| Elongation                             | %                 | STN EN ISO 527-2    | 2         |
| Tensile modulus                        | MPa               | STN EN ISO 527-2    | 10500     |
| Flexural modulus                       | MPa               | STN EN ISO 178      | 8650      |
| Flexural strength                      | MPa               | STN EN ISO 178      | 230       |
| Charpy impact strength 23°C            | kJ/m <sup>2</sup> | STN EN ISO 179      | 80        |
| Charpy impact strength -20°C           | kJ/m <sup>2</sup> | STN EN ISO 179      | 75        |
| Charpy notched impact strength 23°C    | kJ/m <sup>2</sup> | STN EN ISO 179      | 15        |
| Charpy notched impact strength -20°C   | kJ/m <sup>2</sup> | STN EN ISO 179      | 14        |
| <b>Thermal</b>                         |                   |                     |           |
| Heat deflection temperature            | °C                | STN EN ISO 75-2 (A) | 225       |
| Vicat softening point B                | °C                | STN EN ISO 306      | 215       |
| <b>Flammability</b>                    |                   |                     |           |
| Flammability                           | °flam.            | UL - 94             | HB        |
| Glow wire test                         | °C                | STN EN 60695-2-12   | 650 (3mm) |

| Electrical                        |       |                |                    |
|-----------------------------------|-------|----------------|--------------------|
| Comparative tracking index CTI, A | V     | STN EN 60112   | 575                |
| Volume resistivity                | Ohm.m | STN 34 6460    | 5x10 <sup>11</sup> |
| Surface resistivity               | Ohm   | STN 34 6460    | 8x10 <sup>13</sup> |
| Electric strength                 | kV/mm | STN EN 60243-2 | 20                 |
|                                   |       |                |                    |

### Features

PA 6 for injection moulding, reinforced with 33% of glass fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrotools, hobby tools, gears, covers of electric appliances, cooling screws of blowers, electromotors, carrying parts in the automotive industry.  
Delivered in natural mode and in the full RAL colour scale.

### Packaging, transportation, storage

The product is packed either in hermetically closed thick-walled 25 kg PE bags placed on a 1.000 kg palette coated by a stretch film, or in PE bag inserted in bigbag placed on a 1.000 kg palette or in PE bag inserted in paper octabin placed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation.

### NOTE:

Data and values are average measured values, they are intended for technical service advices and can be changed without prior notice.

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