

## Factor® PP-LGF20 ES11 1-111 - PP

### Description

Long glass fiber reinforced Polypropylene, Fiber content: 20%, cutting length: 11mm, color: black. Impact modified. Application: Injection molding

| Physical properties | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1030  | kg/m <sup>3</sup> | ISO 1183      |

| Mechanical properties            | Value | Unit              | Test Standard |
|----------------------------------|-------|-------------------|---------------|
| Tensile modulus                  | 5000  | MPa               | ISO 527-2/1A  |
| Tensile stress at break, 5mm/min | 95    | MPa               | ISO 527-2/1A  |
| Tensile strain at break, 5mm/min | 2.7   | %                 | ISO 527-2/1A  |
| Flexural modulus, 23°C           | 5000  | MPa               | ISO 178       |
| Flexural modulus, 80°C           | 3550  | MPa               | ISO 178       |
| Flexural strength, 23°C          | 110   | MPa               | ISO 178       |
| Flexural strength, 80°C          | 83    | MPa               | ISO 178       |
| Charpy impact strength, 23°C     | 60    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy impact strength, -30°C    | 45    | kJ/m <sup>2</sup> | ISO 179/1eU   |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| DTUL at 1.8 MPa    | 145   | °C   | ISO 75-1, -2  |

### Typical injection moulding processing conditions

| Temperature              | Value     | Unit | Test Standard |
|--------------------------|-----------|------|---------------|
| Feeding zone temperature | 200 - 220 | °C   | -             |
| Zone1 temperature        | 220 - 230 | °C   | -             |
| Zone2 temperature        | 230 - 250 | °C   | -             |
| Zone3 temperature        | 250 - 260 | °C   | -             |
| Zone4 temperature        | 260 - 265 | °C   | -             |
| Nozzle temperature       | 265 - 270 | °C   | -             |
| Mold temperature         | 35 - 65   | °C   | -             |
| Pressure                 | Value     | Unit | Test Standard |
| Back pressure max.       | 25        | bar  | -             |
| Speed                    | Value     | Unit | Test Standard |
| Injection speed          | slow      | -    | -             |

### Characteristics

| Product Categories | Delivery Form |
|--------------------|---------------|
| Glass reinforced   | Pellets       |

### Processing

Injection molding