

**Product Texts**

|                  |   |
|------------------|---|
| Base Polymer     | Polypropylene                           |
| Filler           | 30% carbon fiber                        |
| Colour           | black                                   |
| Special Features | low emission, heat ageing stabilisation |
| Market Segment   | Automotive, Sport                       |

**Processing/Physical Characteristics**

|                             | Value | Unit                   | Test Standard   |
|-----------------------------|-------|------------------------|-----------------|
| <b>ISO Data</b>             |       |                        |                 |
| Melt volume-flow rate, MVR  | 12    | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                 | 230   | °C                     | -               |
| Load                        | 2.16  | kg                     | -               |
| Molding shrinkage, parallel | 0.2   | %                      | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.4   | %                      | ISO 294-4, 2577 |

**Mechanical properties**

|                                       | Value | Unit              | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                       |       |                   |               |
| Tensile Modulus                       | 13500 | MPa               | ISO 527       |
| Tensile Strength                      | 90    | MPa               | ISO 527       |
| Strain at break                       | 3.3   | %                 | ISO 527       |
| Charpy impact strength, +23°C         | 43    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C | 9     | kJ/m <sup>2</sup> | ISO 179/1eA   |

**Thermal properties**

|  | Value | Unit | Test Standard |
|--|-------|------|---------------|
| <b>ISO Data</b>                          |       |      |               |
| Temp. of deflection under load, 1.80 MPa | 149   | °C   | ISO 75-1/-2   |

**Other properties**

|                          | Value | Unit                      | Test Standard    |
|--------------------------|-------|---------------------------|------------------|
| Density                  | 1090  | kg/m <sup>3</sup>         | ISO 1183         |
| Global warming potential | 1.5   | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |

**Processing Recommendation Injection Molding**

|                          | Value     | Unit | Test Standard |
|--------------------------|-----------|------|---------------|
| Pre-drying - Temperature | 80        | °C   | -             |
| Pre-drying - Time        | 2 - 4     | h    | -             |
| Processing humidity      | ≤0.1      | %    | -             |
| Melt temperature         | 210 - 260 | °C   | -             |
| Mold temperature         | 30 - 60   | °C   | -             |

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Low Emission

**Applications**

Automotive, Sports Equipment

**Regional Availability**

Europe