

**Product Texts**

PA66 35% glass fibre reinforced injection moulding grade with enhanced thermal resistance in contact with hot air. High improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. Black colour.

Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention.

| <b>Mechanical properties</b>                         | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|--|-------------------|-------------------|----------------------|
| <b>ISO Data</b>                                      |                   |                   |                      |
| <sup>[C]</sup> Tensile Modulus                       | <b>11500 / -</b>  | MPa               | ISO 527              |
| <sup>[C]</sup> Stress at break                       | <b>210 / -</b>    | MPa               | ISO 527              |
| <sup>[C]</sup> Strain at break                       | <b>3 / -</b>      | %                 | ISO 527              |
| <sup>[C]</sup> Charpy impact strength, +23°C         | <b>79 / -</b>     | kJ/m <sup>2</sup> | ISO 179/1eU          |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | <b>14 / -</b>     | kJ/m <sup>2</sup> | ISO 179/1eA          |

[C]: CAMPUS

| <b>Thermal properties</b>                               | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|---|-------------------|-------------|----------------------|
| <b>ISO Data</b>   |                   |             |                      |
| <sup>[C]</sup> Melting temperature, 10°C/min            | <b>261 / *</b>    | °C          | ISO 11357-1/-3       |
| <sup>[C]</sup> Temp. of deflection under load, 1.80 MPa | <b>250 / *</b>    | °C          | ISO 75-1/-2          |
| <sup>[C]</sup> Temp. of deflection under load, 0.45 MPa | <b>260 / *</b>    | °C          | ISO 75-1/-2          |

[C]: CAMPUS

| <b>Other properties</b>            | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|------------------------------------|-------------------|-------------------|----------------------|
| <sup>[C]</sup> Humidity absorption | <b>1.7 / *</b>    | %                 | Sim. to ISO 62       |
| <sup>[C]</sup> Density             | <b>1420 / -</b>   | kg/m <sup>3</sup> | ISO 1183             |

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Delivery form**

Granules, Black

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Additives**

Release agent

**Other text information**

**Injection molding**

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

**Injection Molding Processing Parameters**

|                  |                  |                 |
|------------------|------------------|-----------------|
| Melt Temperature | Mold Temperature | Injection Speed |
| 280 - 300°C      | 80 - 100°C       | medium-high     |