

# TechnoGreen PP LGF 30-10-04

Polypropylene  
TechnoCompound GmbH

Message:

TechnoGreen PP LGF 30-10-04 is a polypropylene material containing 30% long glass fibers. This product is available in North America, Europe or Asia Pacific. The main characteristics of TechnoGreen PP LGF 30-10-04 are: impact resistance.

| General Information                                |                                        |                   |                 |
|----------------------------------------------------|----------------------------------------|-------------------|-----------------|
| Filler / Reinforcement                             | Long glass fiber, 30% filler by weight |                   |                 |
| Features                                           | Ultra-high impact resistance           |                   |                 |
| Appearance                                         | Black                                  |                   |                 |
| Physical                                           | Nominal Value                          | Unit              | Test Method     |
| Density                                            | 1.12                                   | g/cm <sup>3</sup> | ISO 1183        |
| shrinkage-Flow <sup>1</sup>                        | 0.35                                   | %                 | Internal method |
| Mechanical                                         | Nominal Value                          | Unit              | Test Method     |
| Tensile Modulus                                    | 6300                                   | MPa               | ISO 527-2/1     |
| Tensile Stress (Yield)                             | 85.0                                   | MPa               | ISO 527-2/50    |
| Tensile Strain (Yield)                             | 2.3                                    | %                 | ISO 527-2/50    |
| Flexural Modulus <sup>2</sup>                      | 6500                                   | MPa               | ISO 178         |
| Flexural Stress <sup>3</sup>                       | 115                                    | MPa               | ISO 178         |
| Impact                                             | Nominal Value                          | Unit              | Test Method     |
| Charpy Notched Impact Strength                     |                                        |                   | ISO 179/1eA     |
| -30°C                                              | 14                                     | kJ/m <sup>2</sup> | ISO 179/1eA     |
| 23°C                                               | 15                                     | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy Unnotched Impact Strength                   |                                        |                   | ISO 179/1eU     |
| -30°C                                              | 45                                     | kJ/m <sup>2</sup> | ISO 179/1eU     |
| 23°C                                               | 46                                     | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Thermal                                            | Nominal Value                          | Unit              | Test Method     |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 160                                    | °C                | ISO 75-2/B      |
| Melting Temperature <sup>4</sup>                   | 165                                    | °C                | ISO 11357-3     |
| NOTE                                               |                                        |                   |                 |
| 1.                                                 | 240°C / WZ 40°C, 600 bar               |                   |                 |
| 2.                                                 | 2.0 mm/min                             |                   |                 |
| 3.                                                 | 5.0 mm/min                             |                   |                 |
| 4.                                                 | 10°C/min                               |                   |                 |

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