

CELSTRAN® PP-GF20-02 NATURAL

CELSTRAN® Long Fibre

Material Code according to ISO 104-1: PP Polypropylene homopolymer reinforced with 20 weight percent long glass fibers. Natural. The fibers are chemically coupled to the polypropylene matrix. Then pellets are cylindrical and normally as well as the embedded fibers 10mm long

Product information

| | | |
|----------------------|------------|-----------|
| Resin Identification | PP-LGF20 | ISO 1043 |
| Part Marking Code | >PP-LGF20< | ISO 11469 |

Typical mechanical properties

| | | |
|--------------------------------------|----------------------|--------------|
| Tensile modulus | 5400 MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 105 MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.8 % | ISO 527-1/-2 |
| Flexural modulus | 5150 MPa | ISO 178 |
| Flexural strength | 160 MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 23 kJ/m ² | ISO 179/1eA |
| Poisson's ratio | 0.35 | |

Thermal properties

| | | |
|---|--------|----------------|
| Melting temperature, 10°C/min | 163 °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 157 °C | ISO 75-1/-2 |

Flammability

| | | |
|-------------------------------|-------------------------|-----------------|
| Burning Behav. at thickness h | HB ^[1] class | IEC 60695-11-10 |
| Thickness tested | 1 mm | IEC 60695-11-10 |
| [1]: 28 mm/min | | |

Physical/Other properties

| | | |
|---------|------------------------|----------|
| Density | 1030 kg/m ³ | ISO 1183 |
|---------|------------------------|----------|

Injection

| | |
|---------------|-------|
| Back pressure | 3 MPa |
|---------------|-------|

Characteristics

| | |
|---------------|--------------------|
| Processing | Injection Moulding |
| Delivery form | Pellets |

Automotive

| OEM | STANDARD | ADDITIONAL INFORMATION |
|-----------------------|---------------------|------------------------|
| Ford | WSS-M4D865-B5 | |
| Ford | WSS-M4D865-B7 | |
| Li Auto | Q/LiA5310050 | |
| Stellantis - Chrysler | MS-DB-21 / CPN-5109 | Natural |

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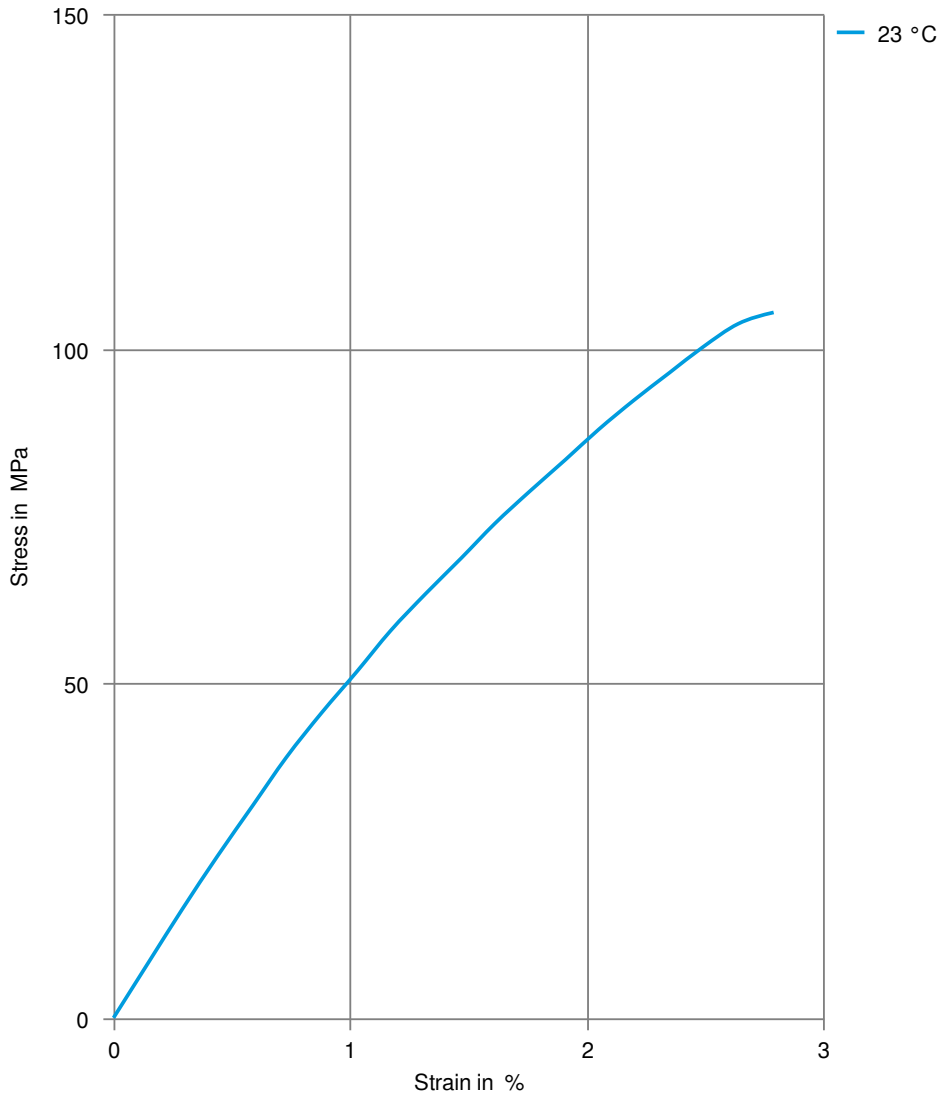
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Tesla
Tesla

TM-1001-12
TM-1001-22

Winona USA
Winona USA

Stress-strain



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Secant modulus-strain

