Celanese
The chemistry inside innovation™

# CELSTRAN® PP-GF40-02 AD3019 BLACK
## CELSTRAN® Long Fibre

40% long strand glass fiber reinforced polypropylene, black. UV resistant.

## Product information

| | | |
|---|---|---|
| Resin Identification | PP-LGF40 | ISO 1043 |
| Part Marking Code | >PP-LGF40< | ISO 11469 |

## Rheological properties

| | | | |
|---|---|---|---|
| Moulding shrinkage range, parallel | 0.2 | % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 0.2 - 0.4 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | | | |
|---|---|---|---|
| Tensile modulus | 8900 | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 130 | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2 | % | ISO 527-1/-2 |
| Flexural modulus | 9250 | MPa | ISO 178 |
| Flexural strength | 200 | MPa | ISO 178 |
| Charpy impact strength, 23°C | 65 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 25 | kJ/m² | ISO 179/1eA |
| Poisson's ratio | 0.34[C] | | |

[C]: Calculated

## Thermal properties

| | | | |
|---|---|---|---|
| Temperature of deflection under load, 1.8 MPa | 158 | °C | ISO 75-1/-2 |

## Physical/Other properties

| | | | |
|---|---|---|---|
| Density | 1210 | kg/m³ | ISO 1183 |

## Injection

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

## Characteristics

| | |
|---|---|
| Processing | Injection Moulding |
| Delivery form | Pellets |
| Special characteristics | U.V. stabilised or stable to weather |

## Automotive

| OEM | STANDARD | ADDITIONAL INFORMATION |
|---|---|---|
| General Motors | GMW16272 | |
| Stellantis - Chrysler | MS-DB-21 / CPN-5307 | Black |

**Celanese**

The chemistry inside innovation™

# CELSTRAN® PP-GF40-02 AD3019 BLACK
## CELSTRAN® Long Fibre

### Stress-strain



Legend:
- —— -40 °C
- —— -20 °C
- —— 0 °C
- —— 23 °C
- —— 40 °C
- —— 60 °C
- —— 80 °C
- —— 100 °C
- —— 120 °C

B - Break

Revised: 2024-07-12     Source: Celanese Materials Database

Celanese
The chemistry inside innovation™
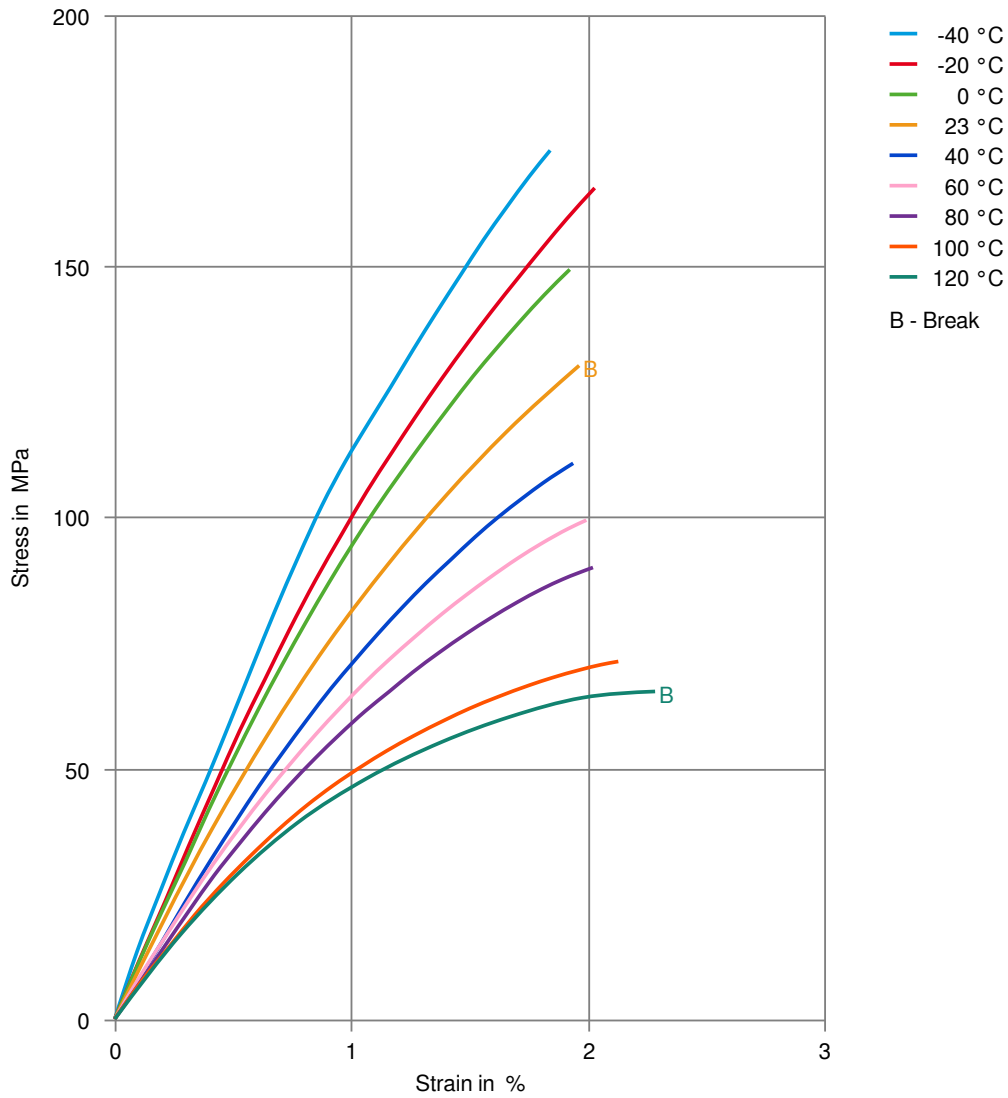
# CELSTRAN® PP-GF40-02 AD3019 BLACK
## CELSTRAN® Long Fibre

### Secant modulus-strain



Legend:
- -40 °C
- -20 °C
- 0 °C
- 23 °C
- 40 °C
- 60 °C
- 80 °C
- 100 °C
- 120 °C

B - Break

Y-axis: Secant modulus in MPa (0 to 15000)
X-axis: Strain in %

Revised: 2024-07-12        Source: Celanese Materials Database