# CELSTRAN® PP-GF30-02 AD 3019

## CELSTRAN® Long Fibre

30% long glass fiber reinforced polypropylene - UV stabilized, black.

## Product information

| | | |
|---|---|---|
| Resin Identification | PP-LGF30 | ISO 1043 |
| Part Marking Code | >PP-LGF30< | ISO 11469 |

## Typical mechanical properties

| | | | |
|---|---|---|---|
| Tensile modulus | 950000 | psi | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 14500 | psi | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.1 | % | ISO 527-1/-2 |
| Flexural modulus | 943000 | psi | ISO 178 |
| Flexural strength | 24700 | psi | ISO 178 |
| Charpy notched impact strength, 23°C | 9.04 | ftlb/in² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 10.2 | ftlb/in² | ISO 180/1A |
| Izod impact strength, -40°C | 12.9 | ftlb/in² | ISO 180/1U |

## Thermal properties

| | | | |
|---|---|---|---|
| Temperature of deflection under load, 1.8 MPa | 315 | °F | ISO 75-1/-2 |

## Physical/Other properties

| | | | |
|---|---|---|---|
| Density | 0.0404 | lb/in³ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 194 | °F |
| Drying Time, Dehumidified Dryer | 2 - 3 | h |
| Processing Moisture Content | ≤0.2 | % |
| Melt Temperature Optimum | 482 | °F |
| Min. melt temperature | 446 | °F |
| Max. melt temperature | 518 | °F |
| Max. screw tangential speed | ≤0.1 | m/s |
| Mold Temperature Optimum | 122 | °F |
| Min. mold temperature | 86 | °F |
| Max. mold temperature | 158 | °F |
| Back pressure | 435 | psi |

## Characteristics

| | |
|---|---|
| Processing | Injection Molding |
| Special characteristics | U.V. stabilized or stable to weather |

## Additional information

Processing Notes

### Pre-Drying

It is normally not necessary to dry CELSTRAN PP. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required.

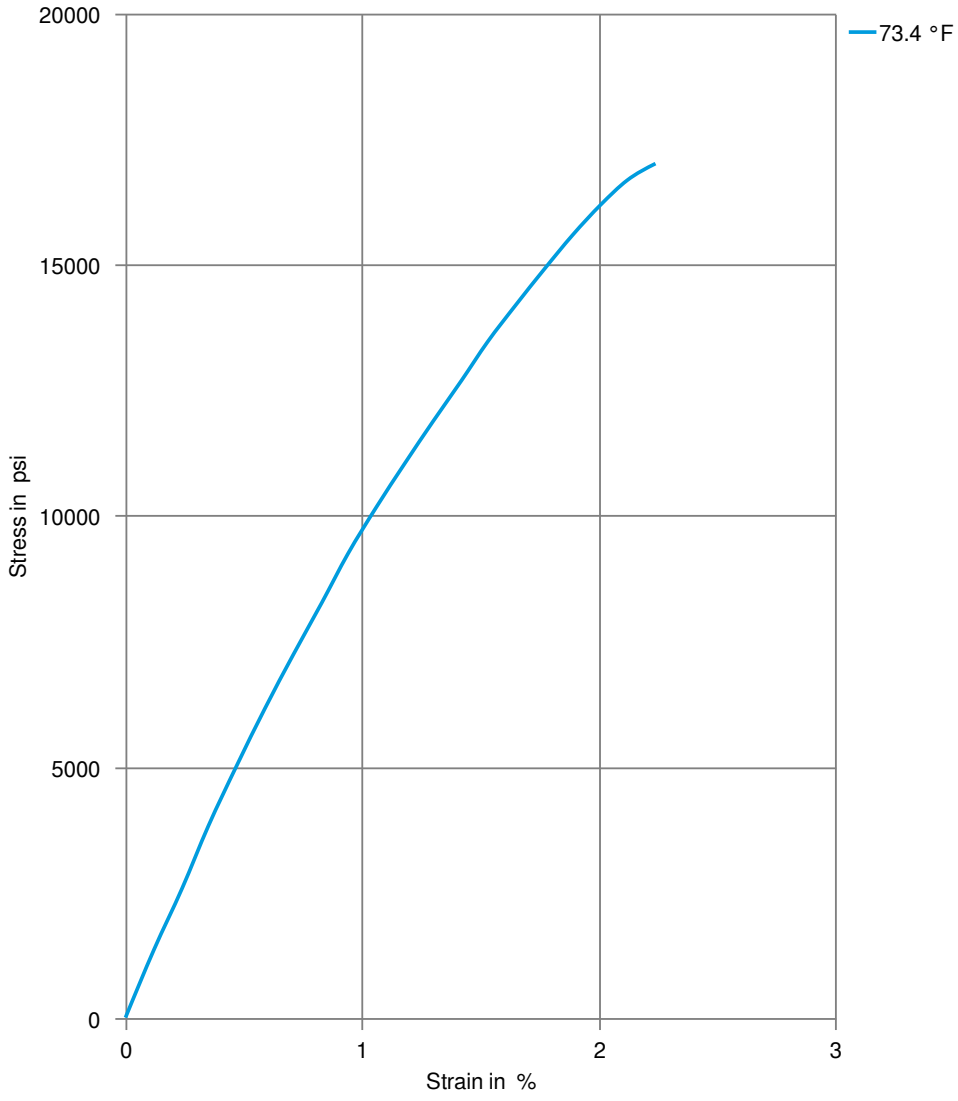
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## Storage

The product can then be stored in standard conditions until processed.

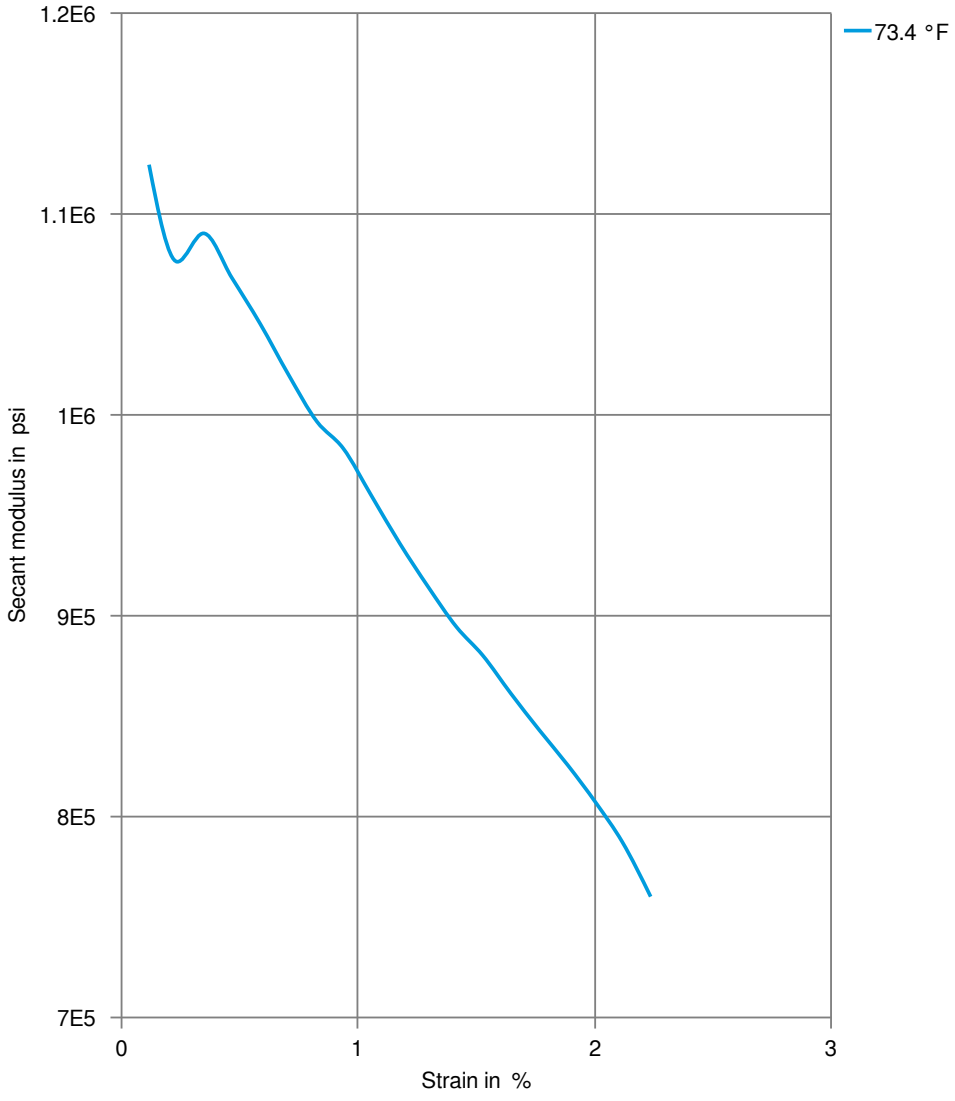
## Stress-strain



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### Secant modulus-strain






Revised: 2025-07-10 Source: Celanese Materials Database

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