# CELSTRAN® PP-GF60-0403 P10/10

## CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene with 60 weight percent ash content, long glass fibers reinforced, concnetrat, black. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 11 mm long. Parts molded of CELSTRAN have outstanding mechanical properties such as high strength and stiffness combined with high heat deflection. The notched impact strength is increased at elevated and low temperatures due to the fiber skeleton built in the parts. The long fiber reinforcement reduces creep significantly. The very isotropic shrinkage in the molded parts minimizes the warpage. Complex parts can be manufactured with high reproducibility by injection molding. Application field: Functional/structural parts for automotive

### Product information

| | | | |
|---|---|---|---|
| Resin Identification | PP-LGF60 | | ISO 1043 |
| Part Marking Code | >PP-LGF60< | | ISO 11469 |

### Typical mechanical properties

| | | | |
|---|---|---|---|
| Tensile modulus | 2.18E6 | psi | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 21000 | psi | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 1.5 | % | ISO 527-1/-2 |
| Flexural modulus | 2.32E6 | psi | ISO 178 |
| Flexural strength | 34800 | psi | ISO 178 |
| Charpy impact strength, 23°C | 32.3 | ftlb/in² | ISO 179/1eU |
| Charpy impact strength, -30°C | 33.3 | ftlb/in² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 15.7 | ftlb/in² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 18.1 | ftlb/in² | ISO 179/1eA |

### Thermal properties

| | | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 334 | °F | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 320 | °F | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 0.07 | E-4/°F | ISO 11359-1/-2 |
| Coefficient of linear thermal expansion (CLTE), normal | 0.453 | E-4/°F | ISO 11359-1/-2 |

### Flammability

| | | | |
|---|---|---|---|
| Burning Behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 0.0394 | in | IEC 60695-11-10 |
| FMVSS Class | B | | ISO 3795 (FMVSS 302) |
| Burning rate, Thickness 2 mm | 0.748 | in/min | ISO 3795 (FMVSS 302) |

### Physical/Other properties

| | | | |
|---|---|---|---|
| Density | 0.0516 | lb/in³ | ISO 1183 |

### Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 194 | °F |
| Drying Time, Dehumidified Dryer | 2 | h |
| Processing Moisture Content | ≤0.15 | % |
| Melt Temperature Optimum | 536 | °F |
| Min. melt temperature | 500 | °F |
| Max. melt temperature | 572 | °F |

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| | | |
|---|---|---|
| Max. screw tangential speed | ≤0.1 | m/s |
| Mold Temperature Optimum | 176 | °F |
| Min. mold temperature | 140 | °F |
| Max. mold temperature | 212 | °F |
| Back pressure | 435 | psi |

## Automotive

| OEM | ADDITIONAL INFORMATION |
|---|---|
| Renault | EP14, PMR2020, 50% CS PP-GF60-0403 P10/10 + 50% Tipplen H949 , No Spec, Special Part Approval, See Your CE Account Manager. |

## Characteristics

| | |
|---|---|
| Processing | Injection Molding |

## 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.

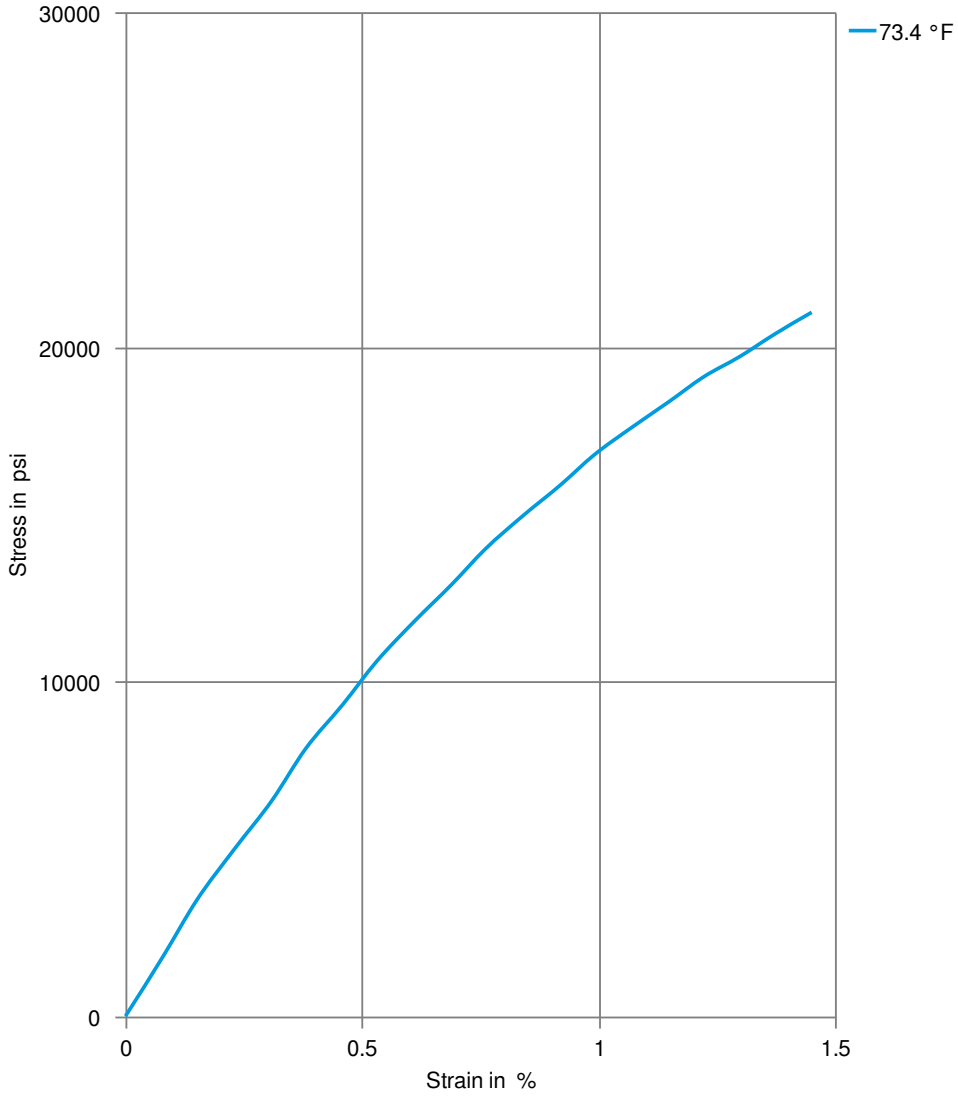
### Storage

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

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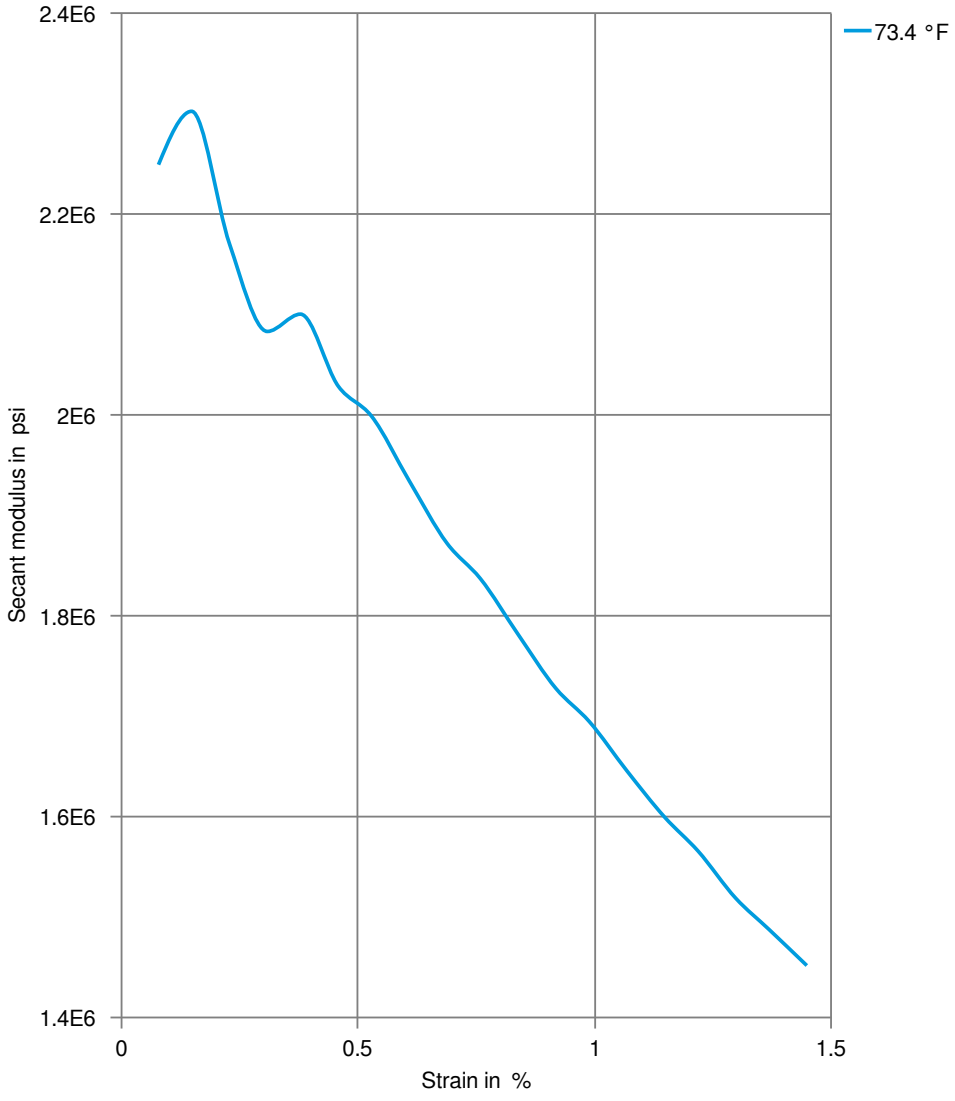
## Stress-strain



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## Secant modulus-strain






Revised: 2026-08-12 Source: Celanese Materials Database

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