

CELSTRAN® PEHD-GF60-01

CELSTRAN® Long Fibre

58% long strand glass fiber reinforced high density polyethylene

Product information

| | | |
|----------------------|-----------------|-----------|
| Resin Identification | (PE-HD)-LGF60 | ISO 1043 |
| Part Marking Code | >(PE-HD)-LGF60< | ISO 11469 |

Typical mechanical properties

| | | |
|---------------------------------------|------------------------|--------------|
| Tensile modulus | 10500 MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 91 MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 1.4 % | ISO 527-1/-2 |
| Flexural modulus | 11700 MPa | ISO 178 |
| Flexural strength | 160 MPa | ISO 178 |
| Charpy notched impact strength, 23 °C | 30 kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23 °C | 37 kJ/m ² | ISO 180/1A |
| Izod impact strength, -40 °C | 45.9 kJ/m ² | ISO 180/1U |
| Poisson's ratio | 0.34 ^[C] | |

[C]: Calculated

Physical/Other properties

| | | |
|---------|------------------------|----------|
| Density | 1510 kg/m ³ | ISO 1183 |
|---------|------------------------|----------|

Injection

| | |
|----------------------|--------|
| Ejection temperature | 109 °C |
|----------------------|--------|

Characteristics

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

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.