

CELSTRAN® TPU-GF40-01 AF3001 NATURAL

CELSTRAN® Long Fibre

The Celstran® long glass fiber reinforced TPU materials provide very low moisture absorption, good creep resistance, excellent chemical resistance and extreme toughness.

Product information

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

Typical mechanical properties

Tensile modulus	11500 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	214 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 %	ISO 527-1/-2
Flexural modulus	10600 MPa	ISO 178
Flexural strength	330 MPa	ISO 178
Charpy notched impact strength, 23°C	51 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	50 kJ/m ²	ISO 180/1A
Poisson's ratio	0.33 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa, annealed	123 °C	ISO 75-1/-2
---	--------	-------------

Physical/Other properties

Density	1520 kg/m ³	ISO 1183
---------	------------------------	----------

Injection

Ejection temperature	140 °C
----------------------	--------

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Low Warpage