

# CELSTRAN® TPU-GF50-01 AF3001 NATURAL

## CELSTRAN® Long Fibre

50% long strand fiber glass reinforced thermoplastic polyurethane

### Product information

Resin Identification	TPU-LGF50	ISO 1043
Part Marking Code	>TPU-LGF50<	ISO 11469

### Typical mechanical properties

Tensile modulus	14500 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	240 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.2 %	ISO 527-1/-2
Flexural modulus	13700 MPa	ISO 178
Flexural strength	380 MPa	ISO 178
Charpy notched impact strength, 23°C	60 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Temperature of deflection under load, 1.8 MPa, annealed	162 °C	ISO 75-1/-2
---	--------	-------------

### Physical/Other properties

Density	1630 kg/m <sup>3</sup>	ISO 1183
---------	------------------------	----------

### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Low Warpage