



# CELSTRAN® TPU-GF40-04 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. The -04 grade provides enhanced temperature performance.

#### **Product information**

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

# Typical mechanical properties

Tensile modulus	11300	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	225	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5	%	ISO 527-1/-2
Flexural modulus	10500	MPa	ISO 178
Flexural strength	350	MPa	ISO 178
Charpy notched impact strength, 23°C		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, 155 °C ISO 75-1/-2

annealed

Physical/Other properties

Density 1520 kg/m<sup>3</sup> ISO 1183

### Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics Low Warpage

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