Celanese
The chemistry inside innovation™

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/m²	ISO 179/1eA
Izod notched impact strength, 23 °C	50	kJ/m²	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/m³	ISO 1183

Injection

Ejection temperature	140	°C

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Low Warpage

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