

CELSTRAN® TPU-GF50-01 AD3002 Black

TPU-GLF50

Celanese

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	14300	MPa	ISO 527
^[C] Stress at break	195	MPa	ISO 527
^[C] Strain at break	1.7	%	ISO 527
^[C] Charpy notched impact strength, +23°C	47	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	96	°C	ISO 75-1/-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1630	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	260 - 265	°C	-
Mold temperature	70 - 75	°C	-

Characteristics**Processing**

Injection Molding

Features

Long fiber reinforced

Delivery form

Pellets, Black

Regional Availability

North America, Europe, Asia Pacific

Other text information**Injection molding**

Polyurethane material drying requirements: 4 hrs. @80° C.

A dehumidifier or desiccant dryer is recommended.

Celstran can be processed on a standard injection molding unit.

A general purpose metering screw is recommended with a zone distribution of 40% feed, 40% transition, and 20% metering.

A free flowing check ring assembly is recommended.

Melt Temp: 260-265°C.

Mold Temp: 70- 75°C.