

CELSTRAN® PBT-GF40-09 - PBT

Experimental Grade. Please contact your Celanese representative for further information.

Description

Long glass fiber reinforced PBT

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	14500	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	175	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	1.65	%	ISO 527-2/1A
Flexural modulus, 23°C	13000	MPa	ISO 178
Flexural strength, 23°C	265	MPa	ISO 178
Charpy notched impact strength, 23°C	30	kJ/m ²	ISO 179/1eA

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.02	%	-
Drying time	4	h	-
Drying temperature	120	°C	-
Temperature	Value	Unit	Test Standard
Feeding zone temperature	20 - 50	°C	-
Nozzle temperature	265 - 285	°C	-
Melt temperature	265 - 285	°C	-
Mold temperature	90 - 100	°C	-

Other text information

Pre-drying

CELSTRAN PBT should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be $\leq -30^{\circ}\text{C}$. The time between drying and processing should be as short as possible

Characteristics

Special Characteristics	Delivery Form
Specialty appearance	Pellets
Product Categories	Regional Availability
Glass reinforced, Impact modified	North America, Europe, Asia Pacific
Processing	
Injection molding	