

CELSTRAN® PEHD-GF40-01 - PE-HD

Description

40% long fiber glass reinforced High Density Polyethylene
 40% long fiber glass reinforced, High Density Polyethylene

Physical properties	Value	Unit	Test Standard
Density	79.3	lb/ft ³	ISO 1183
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1.2E6	psi	ISO 527-1, -2
Tensile stress at break, 5mm/min	17400	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	2.3	%	ISO 527-1, -2
Flexural modulus, 23°C	1.09E6	psi	ISO 178
Flexural strength, 23°C	26100	psi	ISO 178
Charpy notched impact strength, 23°C	19	ft-lb/in ²	ISO 179/1eA

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Necessary low maximum residual moisture content	0.2	%
Drying time	2	h
Drying temperature	194 - 212	°F
Temperature	Value	Unit
Feeding zone temperature	68 - 122	°F
Zone1 temperature	392 - 410	°F
Zone2 temperature	410 - 428	°F
Zone3 temperature	428 - 446	°F
Zone4 temperature	446 - 464	°F
Nozzle temperature	446 - 464	°F
Melt temperature	446 - 464	°F
Mold temperature	104 - 158	°F

Other text information

Pre-drying

It is normally not necessary to dry CELSTRAN PP. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required.

Longer pre-drying times/storage

The product can then be stored in standard conditions until processed.

Characteristics

Special Characteristics	Chemical resistant, Fuel resistant
Product Categories	Glass reinforced, Tribological
Processing	Transfer molding
Delivery Form	Pellets