

Technical information

preliminary

TEREZ[®] PC 1007 GF 15/M/1

dry mixed Polycarbonat, 15% glassfiber reinforced with release agent. Medium to high flowability.



TECHNICAL DATA SHEET

Product text

For all kind of injection molding parts with high performance of stiffnes

Preliminary data

Properties	Value	Unit	Test method
Density	1,3000	g/cm ³	ISO 1183
Impact strength Charpy (Notched 23°C), dry	10	kJ/m ²	ISO 179
MFI 300°C/1,2 kg	14,00	g/10 min	ISO 1133
Impact strength Charpy 23°C, dry	36	kJ/m ²	ISO 179
Elongation at tear, dry	3	%	ISO 527
Tensile strength at break, dry	76	MPa	ISO 527
Elongation at yield, dry	2,00	%	ISO 527
Yield strength, dry	78	MPa	ISO 527
Tensile-modulus, dry	4400	MPa	ISO 527
HDT 0,45 MPa	142	°C	ISO 75
HDT 1,80 MPa	135	°C	ISO 75
Vicat B/50	145	°C	ISO 306
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	1,6	mm	UL 94
UL recognition	-		UL 94

PROCESSING DATA SHEET

Processing guidelines for injection molding of TEREZ PC 1007 GF 15/M/1

The processing data sheet provides guidelines about processing as well as pre-drying.

MATERIAL PREPARATION

Storage

Store in a dry place protected from direct sunlight. Avoid all sources of ignition like extreme heat, sparks, or open flame.

Drying

For the manufacturing of mechanically and optically optimal injection molding parts, we recommend following pre-drying conditions according to the table below. If the container is open (wet granules), the drying time can be extended accordingly.

Dry air dryer

Temperature	120°C
Time	4 hours
Due point	-40°C

Residual moisture

<= 0.03% (recommended)

MACHINE REQUIREMENTS

PROCESSING

Basic settings

The following basic settings are generally to be selected:

Temperatures

Processing temperatures

Hopper	60 - 80°C
Center	270 - 290°C
Nozzle	270 - 290°C

Mold temperature

Temp.	80 - 120°C
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Residence time

You should try to keep the residence time short, especially at high temperatures to avoid material degradation.

Instructions for cleaning

The aggregate can be cleaned by using low MFI polypropylene. You can also use standard cleaning granulate.