

# CERANYL

**Glass fibre reinforced polyamides  
for highest demands**

## General

Godiplast provides polyamides with considerably improved mechanical characteristics under the trademark CERANYL.

For instance, the values for tensile modulus and tensile strength for CERANYL are considerably higher than the values of compounds produced conventionally, and, at the same time, are less dependent on temperatures.

This is achieved by using a newly developed manufacturing process, which enables a very intensive insertion of fibreglass into the basic material PA6 or PA 66. The result is a very high level of fibreglass impregnation, even with high concentration of fibres.

CERANYL only absorbs a relatively small amount of humidity. This results in large stability as to dimensions and characteristics, even under changing environmental influences.

With regard to chemical durability, CERANYL is comparable with other semi-crystalline polyamides, i.e. it features good resistance against oils, greases, fuels, low alcohols, ester, ketones, hydrogen chlorides, diluted organic acids and most alkalis.

## Overview of the characteristics

- **high stability also at high temperatures**  
also at high temperatures, CERANYL has an enormous stability
- **high tensile modulus also at increased temperatures**  
at high temperatures, CERANYL has a considerably higher tensile modulus than comparable polyamides
- **low humidity intake (low water intake)**  
low humidity intake, thus a high degree of stability regarding the dimensions and the characteristics in changing environmental influences
- **low remaining humidity**  
on average at 0.2%
- **low tool temperatures**  
CERANYL allows for low tool temperatures (80°C instead of 140°C)

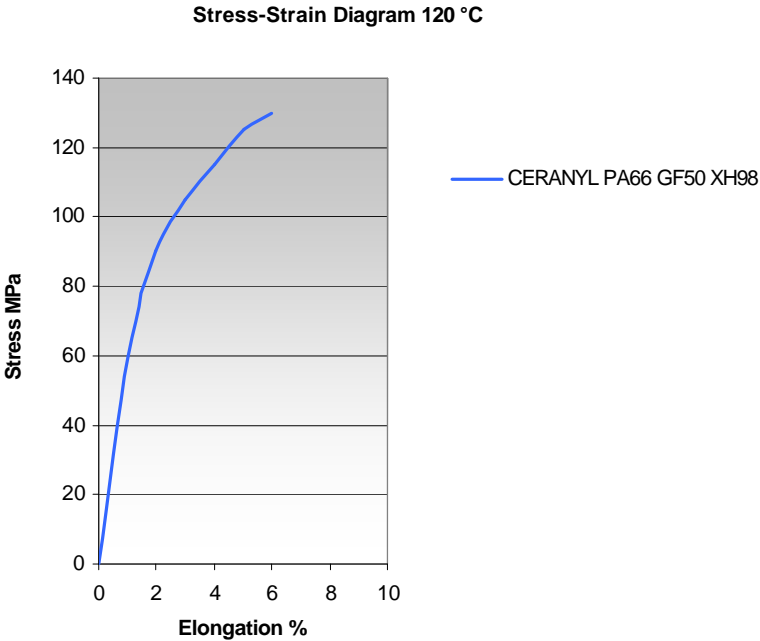
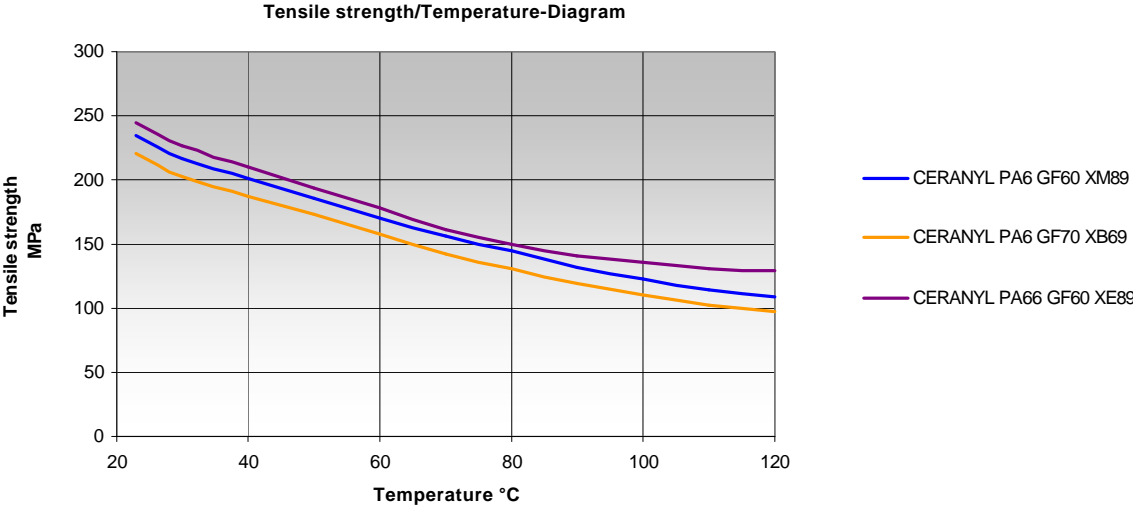
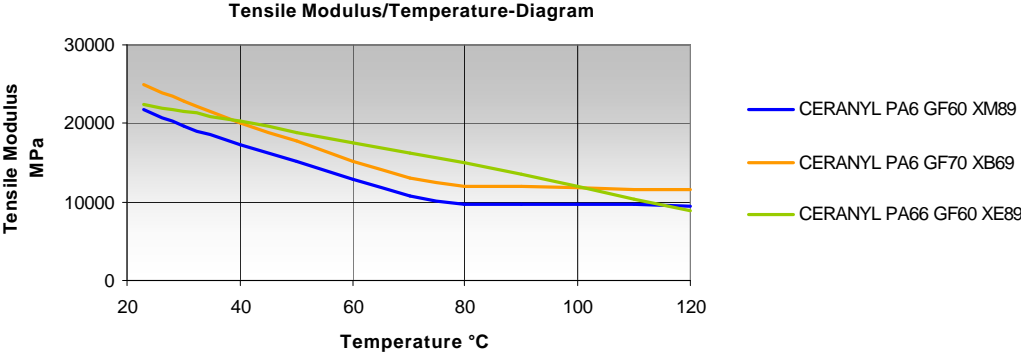
CERANYL can be set to V0 and non-halogen.

Dependent on customer requirements, CERANYL can be dyed in all colours.

## Produktübersicht

<b>CERANYL PA6 GF50 XL97</b>	<ul style="list-style-type: none"><li>■ high form stability</li><li>■ very good surface quality</li><li>■ very high impact resistance</li></ul>
<b>CERANYL PA6 GF60 XM89</b>	<ul style="list-style-type: none"><li>■ very high form stability</li><li>■ very good surface quality</li><li>■ very high stability</li></ul>
<b>CERANYL PA6 GF70 XB69</b>	<ul style="list-style-type: none"><li>■ highest form stability</li><li>■ very good surface quality</li></ul>
<b>CERANYL PA66 GF50 XH98</b>	<ul style="list-style-type: none"><li>■ high form stability</li><li>■ very high impact resistance</li><li>■ very high stability</li><li>■ very low humidity intake</li></ul>
<b>CERANYL PA66 GF60 XE89</b>	<ul style="list-style-type: none"><li>■ very high form stability</li><li>■ very high stability</li><li>■ very low humidity intake</li></ul>

# Further Specific Characteristics



# Examples of Applications

Technical parts in the areas

- **Electro-technics**  
navigation systems, measuring equipment, fans
- **Household appliances**  
Pumps, vapour stream and ironing equipment, humidification systems, washing machines and dishwashers
- **Automobile technology**  
Radiator, rear-view mirror, handles and levers, air conditioning, swivel joints, lighting fixtures, luggage rack
- **Engineering**  
Motor housing, compressors, gear, feed systems, nuts, screws and pins
- **Other**  
Diving equipment, knife shank, DVD player, bicycle gear

## Processing Instructions

CERANYL can be processed on all common injection moulding machines. In principle, the same processing conditions apply as for fibreglass reinforced standard polyamides. The plastifying unit should consist of wear-resistant material. Open injectors are preferable to shutter-type injectors.

Processing parameters:

Bulk temperature 280 - 310 °C	CERANYL PA66 GF50 XH98 CERANYL PA66 GF60 XE89
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Bulk temperature 250 - 290 °C	CERANYL PA6 GF50 XL97 CERANYL PA6 GF60 XM89 CERANYL PA6 GF70 XB69
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Filling pressure	800 to 1500 bar
Injection speed	high

Drying of material:

CERANYL is delivered in aluminium-clad paper sacks for reasons of protection against humidity.

The material in sacks that have been open for a longer period of time should be dried using a vacuum or dry air furnace.

Using a dry air furnace, drying time at a temperature of 80 to 90°C should be approx. 4 hours.

# Application technology service

The GODIPLAST application technology service provides you with advice and support with regard to:

- your choice of materials
- the construction of tools
- the optimisation of the processing conditions

## Contact

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The values stated are average values which can be changed due to many possible influences. A guarantee of the stated values can generally not therefore be given. They do not release the producer from the obligation of the suitability testing of the product for the respective usage purpose.