

TECHNICAL DATA SHEET

Engineering plastic type NY

General notes:

- » PA66/GF50 polyamide 66 reinforced with 50 wt% glass fibre
- » high strength, fatigue, wear and creep resistance
- » heat stabilized, good heat capability
- » good chemical resistance (oils, grease, fuels, non polar solvents); not resistant to strong acids, alkalis and hot water or steam
- » insulative
- » typical applications include plastic tweezers, plastic tip tweezers, MPT's, tool handles

Mechanical properties

Elastic modulus +23°C	16000 MPa	ASTM D 790
Elastic modulus +60°C	14000 MPa	ASTM D 790
Elastic modulus +90°C	8000 MPa	ASTM D 790
Elastic modulus +120°C	5000 MPa	ASTM D 790
Tensile strength +23°C	220 MPa	ISO 527
Tensile strength +60°C	160 MPa	ISO 527
Tensile strength +90°C	110 MPa	ISO 527
Tensile strength +120°C	85 MPa	ISO 527
Izod-Impact strength (notched) +23°C	140 J/m	ASTM D 256
Charpy-Impact strength (unnotched) +23°C	85 kJ/m²	DIN 53453

Thermal properties

Temp. of defl. under load (1.80 MPa)	235 °C	ASTM D648
Temp. of defl. under load (0.45 MPa)	255 °C	ASTM D648
Vicat softening temperature (50°C/h 50N)	250 °C	ISO 306
Coef. of lin. therm expansion, normal	7.00 E-6/°C	ASTM D 696
Continuous Use Temperature	130°C	20'000 h
Short Time Temperature	185°C	

Electrical properties

Comparative tracking index	500 Volts	IEC 112
Electric strength (2mm)	21.0 kV/mm	IEC 243-1

Other properties

Density	1.57 g/ccm	ISO 1183
Water absorption in water 23°C (24h)	0.65%	ISO 62

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.