



TECHNYL A 216T V33 BLACK 1 N

Description

TECHNYL® A 216T V33 BLACK 1N is a polyamide PA66 reinforced with 33% of glass fibre, heat stabilized, for injection moulding. This material is available in black.

Key Properties

Mechanical performance

Benefits

This grade offers an excellent combination between thermal and mechanical properties.

Applications

It is suitable for automotive industry.

Properties

Typical values of properties are for black grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Density	ISO 1183/A	g/cm3	1,40	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	11000	8300
Tensile strength at break	ISO 527 Type 1A	MPa	200	145
Elongation at break	ISO 527 Type 1A	%	3	
Flexural modulus	ISO 178	MPa	9200	6400
Charpy notched impact strength (23 °C)	ISO 179/1eA	kJ/m2	13	17
Charpy unnotched impact strength (23 °C)	ISO 179/1eU	kJ/m2	90	98
Izod notched impact strength (23 °C)	ISO 180/1A	kJ/m2	12	17
Thermal				
Melting Temperature	ISO 11357	°C	263	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	255	
Coef of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5/°C	2,3	
Specific				
Identification code				PA66-GF33

d.a.m. = dry as moulded
Cond = conditioned

Disclaimer

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Processing Guide

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment.

Recommended Maximum water content: 0,2 %

Drying conditions: 80 °C

Recommended moulding conditions

Steel advice for tools For glass fibers reinforced polyamide, Solvay recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: Z38CDV5W or Z160CDV12.

Safety information

Detailed information regarding safety are available on the safety data sheet (SDS).
SDS is sent with the first material order, or available by contacting our customer services

Regulations compliance

Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC

This grade complies with RoHS directive 2002/95/EC

Unless specified, this grade is not suitable for food contact, medical devices or toy applications

Customer services

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

You can find more information on Solvay Product range by on Technyl.com and the link to the product finder and brochures at the following address:
<http://www.technyl.com/en/download/brochures/index.html>