



TECHNYL A 218G2 V50 BLACK 34N

(provisional data Sheet)

Description

TECHNYL® A 218G2 V50 Black 34N is a polyamide 66, reinforced with 50% of glass fiber, heat stabilized, for injection molding. The product is available in black color.

Key Properties

Excellent glycol resistance
Mechanical performance
Heat stabilised

Benefits

Technyl® A218G2 V50 Black 34N has been specially designed to improve its resistance to automotive cooling liquids, increasing lifetime of parts in permanent contact with such a liquid. Due to high content of glass fibers it offers also an excellent combination between thermal and mechanical properties

Applications

Technyl® A 218G2 V50 Black 34N is used in the automotive industry, for engine parts linked to cooling and heating systems that required a high level of mechanical resistance.

Properties

Typical values of properties are for black grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Density	ISO 1183/A	g/cm3	1,57	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	16200	12000
Tensile strength at break	ISO 527 Type 1A	MPa	240	160
Elongation at break	ISO 527 Type 1A	%	2,70	3,50
Flexural modulus	ISO 178	MPa	13500	
Charpy notched impact strength (23 °C)	ISO 179/1eA	kJ/m2	15	
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	95	
Flammability				
Flammability (Thickness: 0,8 mm)	ISO 1210 / UL94		HB	
Flammability (Thickness: 1,6 mm)	ISO 1210 / UL94		HB	
Flammability (Thickness: 3,2 mm)	ISO 1210 / UL94		HB	
Glow Wire Flammability Index (Thickness: 0,8 mm)	ISO 60695-2-12	°C	650	
Glow Wire Flammability Index (Thickness: 1,6 mm)	ISO 60695-2-12	°C	650	
Glow Wire Flammability Index (Thickness: 3,2 mm)	ISO 60695-2-12	°C	650	
Thermal				
Melting Temperature	ISO 11357	°C	263	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	255	

d.a.m. = dry as moulded

Cond = conditioned

Disclaimer

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANDABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Rhodia is at their disposal to supply any additional information.

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

Barrel Temperatures:

- feed zone 260 - 270 °C
- compression zone 270 - 280 °C
- mixing zone 280 - 290 °C

Mould temperatures: 60 - 100 °C

Steel advice for tools For glass fibers reinforced polyamide, Rhodia 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 Rhodia Product range on our internet product finder at the following address:

http://www.rhodia.com/en/markets_and_products/product_finder