Engineering Plastics'
TECHNYL®

Product Data Sheet

06.12.2011

TECHNYL A 218C V10 NATURAL

Description

TECHNYL® A 218C V10 Natural is a polyamide 66, reinforced with 10% of glass fibre, heat stabilized, for injection moulding.
This product is available in natural color.

Key Properties

Electrical conductivity
Dimensional stability
Low warpage
Mechanical performance

Benefits

Due to specially developed additives, the product offers a good electrical conductivity, combined with a good dimensional stability.

Applications

It is mostly used for fuel or oil filters.

More info : www.rhodia.com Tel: 00 800 55 400 600
Contact : engineeringplastics-business@eu.rhodia.com

SOLVAY

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Properties

Typical values of properties are for black grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Water absorption(24h at 23°C)	ISO 62	%	1,20	
Density	ASTM D-792	g/cm3	1,20	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	5500	3200
Tensile strength at break	ISO 527 Type 1A	MPa	100	70
Elongation at break	ISO 527 Type 1A	%	4	10
Flexural modulus	ISO 178	MPa	4200	2400
Flexural maximum stress	ISO 178			95
Charpy notched impact strength (23 °C)	ISO 179/1eA	kJ/m2	4,5	6,5
Charpy unnotched impact strength (23 °C)	ISO 179/1eU	kJ/m2	40	50
Flammability				
Flammability (Thickness: 1,6 mm)	ISO 1210 / UL94		HB	
Glow Wire Flammability Index (Thickness: 1,6 mm)	ISO 60695-2-12	°C	650	
Thermal				
Melting Temperature	ASTM D3417	°C	260	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	232	
Electrical				
Surface resistivity	ASTM D-257			1E 12
Volume resistivity	ASTM D-257			1E 12
Specific				
Identification code			PA66-(GF10+CF)	

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

Disclaimer

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SOLVAY

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	250 - 270 °C
- compression zone	260 - 280 °C
- mixing zone	260 - 280 °C
Mould temperatures:	70 - 100 °C

Steel advice for tools For reinforced polyamide (glass fibre, glass sphere, mineral fibre...), 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 orZ160CDV12.

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