



TECHNYL A 218W V15 NATURAL

Description

TECHNYL® A 218W V15 NATURAL is a polyamide 66, reinforced with 15% of glass fibre, heat stabilized, for injection moulding. This product is available in natural.

Key Properties

Good surface aspect
Good glycol resistance

Benefits

The product offers an excellent combination between thermal and mechanical properties.

Applications

This grade is recommended for the production of mechanical components in permanent or intermittent contact with hot water, such as electro-magnetic valves.

Properties

Typical values of properties are for natural grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Water absorption(24h at 23°C)	ISO 62	%	1,10	
Density	ISO 1183/A	g/cm3	1,24	
Molding shrinkage Parallel	RHODIA	%	0,80	
Molding shrinkage normal or perpendicular	RHODIA	%	1,10	
Molding Shrinkage Isotropy	RHODIA		0,73	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	6070	
Tensile strength at break	ISO 527 Type 1A	MPa	130	
Elongation at break	ISO 527 Type 1A	%	4	
Flexural modulus	ISO 178	MPa	5270	
Izod notched impact strength (23 °C)	ISO 180/1A	kJ/m2	5,5	
Flammability				
Flammability (Thickness: 1,6 mm)	ISO 1210 / UL94			HB
Thermal				
Melting Temperature	ISO 11357	°C	263	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	245	
Specific				
Identification code				PA66-GF15

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 substitutive 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 Solvay 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	270 - 280 °C
- compression zone	275 - 285 °C
- mixing zone	280 - 290 °C
Mould temperatures:	70 - 100 °C

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>