



TECHNYL A 216 V30 NAT FA & BLACK FA

Description

TECHNYL A 216 V30 Natural FA and Black FA are polyamide 66 reinforced with 30% of glass fiber and modified for enhanced injection molding.

This product is available in natural and black.

Key Properties

Mechanical performance
Excellent combination between thermal & mechanical properties

Benefits

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

Applications

It is used specially for food contact applications.

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	%	0,80	
Density	ISO 1183/A	g/cm ³	1,37	
Molding shrinkage Parallel	RHODIA	%	0,50	
Molding shrinkage normal or perpendicular	RHODIA	%	0,80	
Molding Shrinkage Isotropy	RHODIA		0,62	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	10000	7500
Tensile strength at break	ISO 527 Type 1A	MPa	190	135
Elongation at break	ISO 527 Type 1A	%	3	
Charpy notched impact strength (23 °C)	ISO 179/1eA	kJ/m ²	12	16
Charpy unnotched impact strength (23 °C)	ISO 179/1eU	kJ/m ²	80	95
Izod notched impact strength (23 °C)	ISO 180/1A	kJ/m ²	11	16
Thermal				
Melting Temperature	ISO 11357	°C	263	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	255	
Coef of Linear thermal expansion normal or perpendicular (23°C to 85°C)		E-5/°C	2,5	
Electrical				
Comparative tracking index (Sol A)	IEC 60112	V	600	600
Comparative tracking index (Sol B)	IEC 60112	V	500	500
Dielectric strength	IEC 60243	kV/mm	40	30
Dissipation factor	IEC 60250		0,010	0,110
Relative permittivity	IEC 60250		3,75	4
Surface resistivity	IEC 60093	Ohm	6E 14	1E 12
Volume resistivity	IEC 60093	Ohm/cm	1E 15	2E 13
Specific				
Identification code				PA66-GF30

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

Barrel Temperatures:

- feed zone 207 - 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

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/Rhodia Product range on our internet product finder at the following address:

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

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