Engineering Plastics'
TECHNYL®

Product Data Sheet

20.07.2015

TECHNYL B 216 V30

Description

TECNYL B 216 V30 is a Copolyamide 66/6, reinforced with 30% of glass fibre, for injection moulding.
This product is available in natural, black and grey colors.

Key Properties

General purpose
Excellent combination between thermal & mechanical properties

Benefits

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

Applications

It is used in the automotive industry, for the production of coloured internal parts of car.

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SOLVAY

Properties

Typical values of properties are for black grades

	Standards	Unit	Values d.a.m.	Values Cond.
Physical				
Water absorption(24h at 23°C)	ISO 62	%	0,95	
Density	ISO 1183/A	g/cm3	1,37	
Molding shrinkage Parallel	RHODIA	%	0,50	
Molding shrinkage normal or perpendicular	RHODIA	%	0,70	
Molding Shrinkage Isotropy	RHODIA		0,71	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	9800	6500
Tensile strength at break	ISO 527 Type 1A	MPa	185	115
Elongation at break	ISO 527 Type 1A	%	3	8
Flexural modulus	ISO 178	MPa	8300	4700
Flexural maximum stress	ISO 178	MPa	235	140
Charpy notched impact strength (23 °C)	ISO 179/1eA	kJ/m2	11	16
Charpy unnotched impact strength (23 °C)	ISO 179/1eU	kJ/m2	80	92
Izod notched impact strength (23 °C)	ISO 180/1A	kJ/m2	11	19
Flammability				
Flammability (Thickness: 1,6 mm)	ISO 1210 / UL94		HB	
Limit Oxygen Index	ISO 4589		23	
Thermal				
Melting Temperature	ISO 11357	°C	242	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	230	
Coef of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5/°C	3	
Electrical				
Comparative tracking index (Sol A)	IEC 60112	V	550	475
Comparative tracking index (Sol B)	IEC 60112	V	500	
Dielectric strength	IEC 60243	kV/mm	30	26
Dissipation factor	IEC 60250		0,020	0,100
Relative permittivity	IEC 60250		3	4
Surface resistivity	IEC 60093	Ohm	6E 14	1E 13
Volume resistivity	IEC 60093	Ohm/cm	1E 15	1E 13
Specific				
Identification code			PA66/6-GF30	

	Standards	Unit	Values	
			d.a.m.	Cond.

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

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 255 - 265 °C
- compression zone 260 - 270 °C
- mixing zone 270 - 280 °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 orZ160CDV12.

Disclaimer

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
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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