

TECHNYL® A 216 V30 BLACK FA

TECHNICAL DATA SHEET Revised: September, 2017

TECHNYL® A 216 V30 Black FA is a polyamide 66, reinforced with 30% of glass fiber, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties. It is designed to be used in food contact applications.

GENERAL

Material Status	 Commercial: Active 	
Availability	Africa & Middle East	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Key Benefits	 Good Dimensional Stability 	 Food Contact Approved
	 Good Flow 	 Good Mold Release
Applications	Cooking ustensiles	 Kitchen appliances
Certification/Compliance	• EC 1907/2006 (REACH)	• UL QMFZ2
RoHS Compliance	RoHS Compliant	
Colors Available	• Black	Natural Color
Forms	• Pellets	
Processing Method	Injection Molding	
Resin ID (ISO 1043)	• PA66-GF30	

PROPERTIES

Dry	Conditioned	Unit	Test Method
			ISO 294-4
0.30		%	
1.1		%	
0.80		%	ISO 62
1.37		g/cm³	ISO 1183/A
Dry	Conditioned	Unit	Test Method
10000	7500	MPa	ISO 527-2/1A
190	135	MPa	ISO 527-2/1A
3.0		%	ISO 527-2
12	16	kJ/m²	ISO 179/1eA
80	95	kJ/m²	ISO 179/1eU
11	16	kJ/m²	ISO 180
Dry	Conditioned	Unit	Test Method
260		°C	ISO 75-2/Bf
255		°C	ISO 75-2/Af
263		°C	ISO 11357-3
	0.30 1.1 0.80 1.37 Dry 10000 190 3.0 12 80 11 Dry 260 255	0.30 1.1 0.80 1.37 Dry Conditioned 10000 7500 190 135 3.0 12 16 80 95 11 16 Dry Conditioned 260 255	0.30 % 1.1 % 0.80 % 1.37 g/cm³ Dry Conditioned Unit 10000 7500 MPa 190 135 MPa 3.0 % 12 16 kJ/m² 80 95 kJ/m² 11 16 kJ/m² Dry Conditioned Unit

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Solvay Engineering Plastics

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Electrical	Dry	Conditioned Unit	Test Method
Comparative Tracking Index			IEC 60112
Solution A	600	600 V	
Solution B	500	500 V	

PROCESSING

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	270 to 280 °C
Middle Temperature	275 to 285 °C
Front Temperature	280 to 290 °C
Mold Temperature	70 to 100 °C

Injection Notes

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, dew point mini -20°C. Recommended time 2-4h

Injection Advice:

- For reinforced polyamides, Solvay recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.
- The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

DISCI AIMER

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.



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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

This product is not intended to be used for the following regulated market: drinking water, toys, cosmetics or medical devices.

This grade complies with ROHS Directive 2011/65/EU and 2015/863 as amended.

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC as amended.

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
- Design simulation
- 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 on our internet product finder at the following address: http://www.technyl.com

Notes

Typical properties: these are not to be construed as specifications.



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