TECHNYL®

TECHNYL® A 118L V50 BLACK 2428

TECHNICAL DATA SHEET

Revised: April, 2017

TECHNYL® A 118L V50 Black 2428 is a polyamide 6.6, reinforced with 50% of glass fiber, heat stabilized, UV stabilized and modified viscosity, for injection moulding. This grade offers excellent combination between thermal and mechanical properties under external environment (UV radiation). It has a high fluency that permits the injection mould of big dimension or complex geometric structures, an excellent dimensional stability and chemical stability.

GENERAL

Active
0% Filler by Weight
UV Stabilizer
 High Stiffness Good UV Resistance
 plications External rear mirror bracket Switch, Plug, Control & Sockets Wiring & cables applications
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PROPERTIES

Typical values of properties are for Black grades

Physical	Dry Unit	Test Method
Water Absorption (24 hr, 23°C)	0.60 %	ISO 62
Density	1.57 g/cm ³	ISO 1183/A
Mechanical	Dry Unit	Test Method
Tensile Stress (Break, 23°C)	220 MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	1.8 %	ISO 527-2
Flexural Modulus (23°C)	16800 MPa	ISO 178
Flexural Stress (23°C)	355 MPa	ISO 178
Charpy Unnotched Impact Strength (23°C)	60 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	14 kJ/m ²	ISO 180
Thermal	Dry Unit	Test Method
Heat Deflection Temperature		ISO 75-2/Af
1.8 MPa, Unannealed	250 °C	

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Flammability	Dry Unit	Test Method
Flame Rating (1.6 mm)	HB	UL 94

PROCESSING

Dry Unit	
0° C	
0.20 %	
270 to 280 °C	
280 to 290 °C	
280 to 300 °C	
70 to 100 °C	
-	Dry Unit 80 °C 0.20 % 270 to 280 °C 280 to 290 °C 280 to 300 °C 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

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.









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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: food contact, drinking water, toys, cosmetics or medical devices.

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





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MULTIPOINT DATA

Isothermal Stress vs. Strain (ISO 11403-1)



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Notes

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

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