



TECHNYL A 118L V50 BLACK 2428

Description

TECHNYL A 118L V50 BLACK 2428 is a polyamide 6.6 reinforced with 50% of glass fiber, with thermal stability, UV protection and modified viscosity, for injection moulding. This product is available in black.

Key Properties

UV stabilised
High stiffness

Benefits

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.

Applications

It is used for automotive industry, mainly for applications where the high mechanical and thermal resistance properties are request and applications which are exposed to UV as external rear mirror support...

Properties

Typical values of properties are for black grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Water absorption(24h at 23°C)	ASTM D-792	%	0,60	
Density	ASTM D-792	g/cm3	1,57	
Molding shrinkage Parallel	RHODIA	%	0,20	
Molding shrinkage normal or perpendicular	RHODIA	%	0,40	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	13000	
Tensile strength at break	ISO 527 Type 1A	MPa	220	
Elongation at break	ISO 527 Type 1A	%	1,80	
Flexural modulus	ISO 178	MPa	16780	
Flexural maximum stress	ISO 178	MPa	355	
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	60	
Izod notched impact strength	ISO 180/1A	kJ/m2	14	
Flammability				
Flammability (Thickness: 1,6 mm)	ISO 1210 / UL94		HB	
Thermal				
Melting Temperature	ASTM D3417	°C	260	
Heat deflection temperature (0,45 MPa)	ISO 75/Af	°C	> 240	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	> 240	
Coef of Linear thermal expansion normal or perpendicular	ASTM D-696	E-5/K	1,5	
Specific				
Identification code			PA66-GF50	

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 substitute 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 reinforced polyamide (glass fibre, glass sphere, mineral fibre...), 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:
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