Engineering Plastics'
TECHNYLSTAR™

Product Data Sheet

12.06.2013

TECHNYLSTAR AFX 218S V50 BLACK 31N

Description

TECHNYLSTAR™ AFX 218S V50 Black 31N is based on a patented high flow polyamide 66 resin (Technylstar), heat stabilized, reinforced with 50% of glass fibre, for injection moulding. It is available in black color.

Key Properties

High flow
Excellent surface aspect
Heat stabilised
High mechanical performance

Benefits

Due to its outstanding flow caracteristics, the product shows exceptional processing behaviour and excellent surface aspect of the finished part.

Applications

The product is particularly suitable for all applications where a high rigidity is required: typically structural parts or brackets for the automotive industry.
Its high mechanical performance allows that product to be an alternative to metal parts.

Regional Availability

Asia / Pacific

More info : www.rhodia.com Tel: 00 800 55 400 600
Contact : engineeringplastics-business@eu.rhodia.com

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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	%	0,60	
Density	ISO 1183/A	g/cm3	1,57	
Molding shrinkage Parallel	RHODIA	%	0,34	
Molding shrinkage normal or perpendicular	RHODIA	%	0,42	
Mechanical				
Tensile strength at yield	ASTM D-638	MPa	230	
Elongation at break	ASTM D-638	%	2,50	
Flexural modulus	ASTM D-790	MPa	16000	
Flexural maximum stress	ASTM D-790	MPa	355	
Izod notched impact strength	ASTM D256	J/m	180	
Rockwell Hardness	ASTM D-786	R scale	121	
Flammability				
Flammability (Thickness: 3,2 mm)	ISO 1210 / UL94		HB	
Thermal				
Melting Temperature	ISO 11357	°C	262	
Heat deflection temperature (1,82 MPa)	ASTM D-648	°C	256	
Specific				
Identification code				PA66-GF50

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

Disclaimer

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	260 - 270 °C
- compression zone	270 - 280 °C
- mixing zone	280 - 290 °C
Mould temperatures:	80 - 100 °C

Steel advice for tools For glass fibers reinforced polyamide, Rhodia 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.

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 Rhodia Product range on our internet product finder at the following address:
http://www.rhodia.com/en/markets_and_products/product_finder