



## TECHNYL SSD 330 KNF/E NATURAL

### Description

TECHNYL® SSD 330 KNF/E NATURAL is a polyamide 66, reinforced with 33% of glass fibre, for injection moulding specially stabilized to improve its resistance to automotive cooling liquids.

This product is available in natural.

### Key Properties

Good surface aspect  
Good glycol resistance

### Benefits

This grade offers long term stability in contact with glycol and cooling liquids in cars and improves surface aspect.

### Applications

It is particularly recommended for the injection moulding of parts in permanent contact with cooling liquids in cars, such as:

- Cooling and heating radiator systems,
- header tanks,
- thermostat components,
- inlet / outlet pipes.

## Properties

Typical values of properties are for natural grades

	Standards	Unit	Values	
			d.a.m.	Cond.
<b>Physical</b>				
Water absorption(24h at 23°C)	ISO 62	%	0,80	
Density	ASTM D-792	g/cm3	1,39	
Molding shrinkage Parallel	RHODIA	%	0,50	
Molding shrinkage normal or perpendicular	RHODIA	%	0,80	
<b>Mechanical</b>				
Tensile strength at yield	ASTM D-638	MPa	195	
Elongation at break	ASTM D-638	%	3	
Flexural modulus	ASTM D-790	MPa	10300	
Flexural maximum stress	ASTM D-790	MPa	300	
Izod notched impact strength	ASTM D256	J/m	120	
Rockwell Hardness	ASTM D-786	R scale	121	
<b>Flammability</b>				
Glow Wire Flammability Index (Thickness: 1,6 mm)	IEC 60695-2-12	°C	650	
Limit Oxygen Index	ISO 4589		23	
<b>Thermal</b>				
Melting Temperature	ASTM D3418	°C	262	
Heat deflection temperature (1,8 MPa)	ASTM D-648	°C	255	
Coef of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5/°C	2,3	
<b>Specific</b>				
Identification code				PA66-GF33

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, MERCHANTABILITY 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:  
<http://www.technyl.com/en/download/brochures/index.html>