TECHNYL® A 338Wit2 V30 BLACK 36N

Product Datasheet - March 2006

Description

Polyamide 66, reinforced with 30% of glass fibres, for water injection Technology (WIT).
This grade shows an improved retention of properties after long term aging in automotive cooling liquids.

Product Applications

Technyl A 338WIT2 V30 BLACK 36N is particularly recommended for water 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.

This product is available in black.

Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,2% with a dehumidified air drying equipment at approx 80°C.
Recommended moulding conditions:
Barrel temperatures:

- feed zone	260 - 270°C
- compression zone	270 - 280°C
- front zone	280 - 290°C
Mould temperatures	80 at 100°C

For more detailed information, please refer to the technical sheet Injection moulding.

Safety

Please refer to the Safety Data Sheet

Avenue Ramboz BP 64 F-69192 Saint-Fons Cedex. Telephone: +33 (0)4 72 89 27 00 Fax: +33(0)4 72 89 27 01
RHODIA ENGINEERING PLASTICS. Société Anonyme au capital de 271 256 400 F - 393 335 104 RCS Lyon

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The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.80	-
Density	ISO 1183-A	g/cm3	1.37	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	9000	-
Tensile strain at break	ISO 527 type 1 A	%	3	-
Tensile strength at break	ISO 527 type 1 A	MPa	140	-
Flexural modulus	ISO 178	MPa	7900	-
Flexural maximum stress	ISO 178	MPa	210	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	13	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	80	-
Charpy unotched impact after ageing water/glycol (200h at 135°C)	ISO 179/1fU	kJ/m2	55	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	230	-
Coef. of Linear thermal expension normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	2	-

Identification Code :

The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the products as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a format commitment or warranty of our part. Compliance of our products with your conditions or use can only be determined pursuant to your own prior appropriate list. The listed values of properties are for natural grade, if not otherwise specified.

* d.a.m = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.

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