

TECHNYL® A 218G V33 NOIR 34N

Description Polyamide 66, reinforced with 33% of glass fibre, for injection moulding specially stabilized to improve its resistance to automotive cooling liquids.

Applications TECHNYL A 218G V33 black 34N 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.

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 Material Safety Data Sheet A1

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Main properties

Values measured at 23 °C

The values of properties are for black grade.

Properties	Standards	Unit	Values		
			EH 0 – 23 °C	EH 50 – 23 °C	
Physical	Density	ISO 1183-A	g/cm ³	1.39	-
	Moulding shrinkage longitudinal	ISO 294-4	%	0.36	-
	Moulding shrinkage transverse	ISO 294-4	%	1.08	-
Mechanical	Tensile Modulus	ISO 527	MPa	10200	7600
	Tensile strain at break	ISO 527	%	3.4	-
	Tensile stress at break	ISO 527	MPa	200	140
	Flexural modulus	ISO 178	MPa	9500	6000
	Flexural stress at break	ISO 178	MPa	290	198
	Charpy notched impact strength	ISO 179/1EA-1993	kJ/m ²	12	19
	Charpy impact strength	ISO 179/1EU-1993	kJ/m ²	92	98
	Izod notched impact strength	ISO 180	kJ/m ²	13	20
Thermal	Melt temperature	ISO 3146 - C	°C	260	-
	Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	250	-
	Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	2.5	-
	Flammability UL94 thickness 1,6 mm	ISO 1210/UL 94	-	HB	-
Electrical	Relative permittivity 1MHz	IEC 250	-	3.7	-
	Dissipation factor 1 MHz	IEC 250	-	0.01	-
	Volume resistivity	IEC 93	E14.Ohm.cm	10	-
	Dielectric strength	IEC 243-1	kV/mm	34	-

Identification code

>PA66-GF33<

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 formal commitment or warranty on our part. Compliance of our products with your conditions of application or use can only be determined pursuant to your own prior appropriate test. The listed values of properties are for natural grade, if not otherwise specified.



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