TECHNYL® C 218 V33

Description :	Polyamide PA6, reinforced with 33% of glass fibre,heat stabilized, for injection moulding.
Applications :	It has good mechanical properties, it is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties.. It is used in the automotive industry and electrical sectors. This product is available in colours on request.
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 less than 0.2% with a dehumidified air drying equipment at approx. 80°C. Recommended moulding conditions: -Barrel temperatures: - feed zone 225-230°C - compression zone 230-240°C - front zone 240-250°C -Mould temperatures: 80-100 °C For more detailed information, please refer to the technical file “ Injection moulding “.
Safety :	Please refer to the Material Safety Data Sheet

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Main Properties

Measurements at 23°C

Properties		Norms	Units	Values	
				EH 0 – 23°C	EH 50 – 23°C
Physical	Moisture absorption 24 h at 23°C	ISO 62	%	0.92	-
	Specific gravity	ISO 1183-A	g/cm^3	1.37	-
	Mould shrinkage (flow)	NYLTECH	%	0.3	-
	Mould shrinkage (transverse)	NYLTECH	%	0.7	-
Mechanical	Tensile modulus of elasticity	ISO 527	MPa	10200	6620
	Tensile strain at break	ISO 527	%	3.1	4.2
	Tensile stress at break	ISO 178	MPa	193	113
	Flexural modulus	ISO 178	MPa	9660	6040
	Charpy notched impact strength	ISO 179/1EA-1993	kJ/m^2	15.9	32.4
	Izod notched impact strength	ISO 180	kJ/m^2	15	26
Thermal	Melting temperature	ISO 3146 - C	°C	222	-
	Deflection temperature under load at 1.8 MPa	ISO 75-2	°C	210	-
	Coef. Linear expansion longit. 23°C-85°C	ASTM E 831	E-5/°C	2.9	-
	Flammability UL94 thickness 1,6 mm	ISO 1210/UL 94	V	HB	-
	Glow Wire test thickness 1,6 mm	IEC 695-2-1	°C	650	-
Electrical	Relative permittivity 1 MHz	IEC 250	-	3.8	4.5
	Dissipation factor 1 MHz	IEC 250	-	0.02	0.09
	Volume resistivity	IEC 93	E14.Ohm.cm	10	0.001
	Surface resistivity	IEC 93	E14.Ohm	0.1	0.001
	Dielectric Strength	IEC 243-1	kV/mm	-	22
	Comparative tracking index KC	IEC 112	Volt	550	475

Identification code >PA6-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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