

TECHNYL® A 218 V10

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	Water absorption, 24h in water at 23°C	ISO 62	%	1.2	-
	Density	ISO 1183-A	g/cm ³	1.21	-
	Moulding shrinkage longitudinal	RHODIA-EP	%	0.9	-
	Moulding shrinkage transverse	RHODIA-EP	%	1.3	-
Mechanical	Tensile Modulus	ISO 527	MPa	5000	3200
	Yield stress	ISO 527	MPa	105	70
	Nominal elongation at break	ISO 527	%	4	10
	Tensile stress at break	ISO 527	MPa	105	70
	Flexural modulus	ISO 178	MPa	4500	2400
	Flexural, maxi. load stress	ISO 178	MPa	-	95
	Flexural strength	ISO 178	MPa	160	-
	Charpy notched impact strength	ISO 179/1EA-1993	kJ/m ²	5	5.5
	Charpy notched impact strength ISO179/1A	ISO 179-1982	kJ/m ²	6	8
	Charpy impact strength	ISO 179/1EU-1993	kJ/m ²	35	42
	Charpy impact strength ISO 179/1D	ISO 179-1982	kJ/m ²	30	40
	Izod notched impact strength	ISO 180	kJ/m ²	5	8
Thermal	Melt temperature	ISO 3146 - C	°C	263	-
	Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	232	-
	Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	4	-
	Flammability UL94 thickness 1,6 mm	ISO 1210/UL 94	-	HB	-
Electrical	Relative permittivity 1MHz	IEC 250	-	3.7	4
	Dissipation factor 1 MHz	IEC 250	-	0.01	0.1
	Volume resistivity	IEC 93	E14.Ohm.cm	10	0.1
	Surface resistivity	IEC 93	E14.Ohm	6	0.01
	Dielectric strength	IEC 243-1	kV/mm	31	30
	Comparative tracking index KC	IEC 112	Volt	450	300
Specific	Limit oxygen index	ISO 4589	%	25	-

Identification code

>PA66-GF10<

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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