

TECHNICAL DATA SHEET

TECHNYL A 218 V30 BK 34NG LP

Polyamide 66, 30% glass fiber reinforced, lasermarkable, for injection molding, black

General

Polymer type	PA66 (Polyamide 66)		
Certification	RoHS	EC 1907/2006 (REACH)	

Product identification

ISO 1043 abbreviation	PA66-GF30		
ISO 16396 designation	PA66,GF30,M1O2,S14-100		

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.7
Water absorption	24 hr, 23°C	ISO 62	%	0.8
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	1.1

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / 7500
Stress at break		ISO 527-1/-2	MPa	190 / 135
Strain at break		ISO 527-1/-2	%	3 / 7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9000 / 6400
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	290 / 215
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	75 / 85
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	10 / 15

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	260
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	255

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for black products.

Condition	Standard	Unit	Value
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*: conditioned according to ISO 1110

Processing conditions

Drying temperature/time	80°C
Suggested max moisture	0.2 %
Rear temperature	270 - 280 °C
Middle temperature	275 - 285 °C
Front temperature	280 - 290 °C
Recommended mould temperature	70 - 100 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

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