

TECHNICAL DATA SHEET

TECHNYL A 219 V30 BK

(Previously TECHNYL A 218W V30 BLACK TE)

TECHNYL A 219 V30 BK is a polyamide 66, reinforced with 30% of glass fibre, heat stabilized, for injection moulding. This grade offers an improved hydrolysis resistance, as well as an excellent combination between thermal and mechanical properties. It is also restricts eletrolytical corrosion.

General

Feature	Heat-aging stabilized		
Polymer type	PA66 (Polyamide 66)		
Processing technology	Injection molding		
Certification	RoHS	EC 1907/2006 (REACH)	
Colors available	Black		
Forms	Pellets		

Product identification

ISO 1043 abbreviation	PA66-GF30
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	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.36

Physical properties

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	11 / 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

*: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Processing conditions				
Drying temperature/time		80		
Suggested max moisture		0.2 %		
Rear temperature		270 - 280 °C		
Middle temperature		275 - 285 °C		
Front temperature		280 °C		
Recommended melt temperature		70 - 100 °C		

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