

TECHNICAL DATA SHEET

TECHNYL A 218 V30 BK 34NG A

(Previously DOMAMID 66G30HR2 BK99)

Polyamide 66, 30% glass fiber reinforced, heat-aging stabilized, hydrolisis stabilized, for injection molding, black. For Asian availability only.

General

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

Product identification

ISO 1043 abbreviation	PA66-GF30
ISO 16396 designation	PA66,GF30,M1HW,S14-100

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.36
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10100 / 7300
Stress at break	5 mm/min	ISO 527-1/-2	MPa	190 / 140
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 6
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9100 / 6500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	280 / 190
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	80 / 90
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	70 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	10 / 15
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	9 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	12 / 18
Izod notched impact strength, -30°C	-30°C	ISO 180/1A	kJ/m ²	9 / -

	Condition	Standard	Unit	Value
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	255
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	250
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	255

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Comparative tracking index	Solution A	IEC 60112	V	400
CTI performance level category		Sol A		PLC 1

Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

Test run at 23°C if not differently specified, DAM state (dry as moulded).
 *: conditioned according to ISO 1110

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Rear temperature	270 - 280 °C
Middle temperature	275 - 285 °C
Front temperature	280 - 290 °C
Recommended melt temperature	270 - 290 °C
Recommended mould temperature	90 - 110 °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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