

TECHNICAL DATA SHEET

TECHNYL A 219 V30 NC

(Previously TECHNYL A 218W V30 NATURAL TE / DOMAMID 66G30H1 NC)

TECHNYL A 219 V30 NC 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)		
Certification	RoHS	EC 1907/2006 (REACH)	
Colors available	Natural		

Product identification

ISO 1043 abbreviation	PA66-GF30		
-----------------------	-----------	--	--

Condition

Standard

Unit

Value

Physical properties

Density		ISO 1183	g/cm ³	1.35
Water absorption	24 hr, 23°C	ISO 62	%	0.8

Mechanical properties

dam / cond.*

Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / 6600
Stress at break		ISO 527-1/-2	MPa	190 / 135
Strain at break		ISO 527-1/-2	%	3.2 / 4
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9000 / -
Flexural modulus, ASTM D790	2 mm/min	ASTM D790	MPa	8600 / -
Flexural strength, ASTM D790	2 mm/min	ASTM D790	MPa	270 / -
Charpy impact strength		ISO 179/1eU	kJ/m ²	85 / 95
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	11 / 15
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	11 / -

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	250

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+015
Surface resistivity		IEC 62631-3-1	ohm	1E+015
Comparative tracking index	Solution A	IEC 60112	V	575
CTI performance level category		Sol A		PLC 1

Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 mm	UL 94		HB
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650

*Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products.
: 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 melt 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.

Disclaimer

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.