TECHNYL®

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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 hydrolisis 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/cm³	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/m²	85 / 95
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 15
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	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

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Electrical properties

	Condition	Standard	Unit	Value
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