TECHNYL®

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TECHNICAL DATA SHEET

TECHNYL A 219 V30 NC

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

Polymer type	PA66	
Feature	heat-aging stabilized	
Applications	consumer applications	white goods / small appliances
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA66-GF30

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.35
Water absorption	24 hr, 23°C	ISO 62	%	0.8

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	Condition	Standard	Unit	Value
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 / -

: conditioned according to ISO 1110

	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	260
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	250

	Condition	Standard	Unit	Value
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

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Electrical properties

	Condition	Standard	Unit	Value
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E15
Surface resistivity		IEC 62631-3-1	ohm	1.0E15
Comparative tracking index	Solution A	IEC 60112	V	575.0
CTI performance level category		Sol A		PLC 1

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