

TECHNICAL DATA SHEET

TECHNYL AX 219S V60 NC B

PA66-Alloy, 60% glass fiber reinforced, heat-aging stabilized, for injection moulding

General

Feature	Heat-aging stabilized
Polymer type	PA66-Alloy
Processing technology	Injection molding
Certification	RoHS
Colors available	Natural
Forms	Pellets

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.75
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.2
Water absorption	24 hr, 23°C	ISO 62	%	3.5
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.55 - 0.75

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	23000 / 20000
Stress at break	5 mm/min	ISO 527-1/-2	MPa	260 / 210
Strain at break	5 mm/min	ISO 527-1/-2	%	2.5 / 3
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	22000 / 19000
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	100 / 90
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	95 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	16 / 15
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	17 / -

Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	235

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Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	10000000000
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Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100

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	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	280 - 305 °C
Recommended mould 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.

Injection notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.

Disclaimer

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