

TECHNICAL DATA SHEET

TECHNYL AX 219S V40 BK B

PA66-Alloy, 40% 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	Black
Forms	Pellets

	Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm³	1.46
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Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	13500 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	215 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	2 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11.5 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	260
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	235

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+012
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Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Flammability, 1.5 mm	1.5 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

Condition	Standard	Unit	Value
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Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)		
Recommended melt temperature	285 - 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.

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