

TECHNICAL DATA SHEET

TECHNYL 4EARTH A2E 219 V30 BK
(Previously ECONAMID PLUS 66G30H1 BK)

Polyamide 66, 30% glass fiber reinforced, heat-aging stabilized, for injection moulding, black

General

Feature	Heat-aging stabilized
Polymer type	PA66 (Polyamide 66)
Processing technology	Injection molding
Certification	RoHS

Product identification

ISO 1043 abbreviation	PA66-GF30
ISO 16396 designation	PA66,GF30(R>50),M1H,S14-080

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.35

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8500 / 5400
Stress at break	5 mm/min	ISO 527-1/-2	MPa	130 / 85
Strain at break	5 mm/min	ISO 527-1/-2	%	2.5 / 5
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	35 / 50
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6.5 / 11
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	30 / 45
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	6 / 10

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	255
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	245
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	250

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	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013

Burning behaviour

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

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for black 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	270 - 290 °C
Recommended mould temperature	90 - 110 °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. Thess TECHNYL grades are not recommended for injection moulding hot runner systems with a diameter below 1mm.

Disclaimer

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