

TECHNICAL DATA SHEET

**TECHNYL 4EARTH A5E 216M NC H**  
(Previously ECONAMID FL 66 500)

Polyamide 66, improved impact resistance, for injection moulding, black

**General**

Feature	Improved impact resistance
Polymer type	PA66 (Polyamide 66)
Processing technology	Injection molding
Certification	RoHS

**Product identification**

ISO 1043 abbreviation	PA66-I
ISO 16396 designation	PA66-I,(R100),M1,S14-030

	Condition	Standard	Unit	Value
<b>Physical properties</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.13

**Mechanical properties**

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	2750 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	50 / -
Yield stress	50 mm/min	ISO 527-1/-2	MPa	75 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	7 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m <sup>2</sup>	6 / -
Rockwell hardness		ISO 2039/2	ScaleR	118 / -

**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	185
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	65
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	235

**Electrical properties**

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013

Condition	Standard	Unit	Value
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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 mm/min

\*: 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	40 - 80 °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. These TECHNYL grades are not recommended for injection moulding hot runner systems with a diameter below 1mm.*

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