

TECHNICAL DATA SHEET

**TECHNYL 4EARTH C2E 216 V25 BK**  
(Previously ECONAMID PLUS 6G25 BK)

Polyamide 6, 25% glass fiber reinforced, for injection moulding, black

**General**

Polymer type	PA6 (Polyamide 6)
Processing technology	Injection molding
Certification	RoHS

**Product identification**

ISO 1043 abbreviation	PA6-GF25
ISO 16396 designation	PA6,GF25(R>50),M1,S14-080

	Condition	Standard	Unit	Value
<b>Physical properties</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.32

**Mechanical properties**

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8000 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	135 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m <sup>2</sup>	5 / -
Rockwell hardness		ISO 2039/2	ScaleR	120 / -

**Thermal properties**

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	215
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	205
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210

**Electrical properties**

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

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	Condition	Standard	Unit	Value
<b>Burning behaviour</b>				
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	235 - 275 °C
Recommended mould temperature	70 - 120 °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.*

**Disclaimer**

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