+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)

# TECHNYL® 4EARTH® Sustainable polyamide



**EXPERIMENTAL DATASHEET** 

# **TECHNYL 4EARTH C2E 218 V40 BK**

(Previously ECONAMID PLUS 6G40H2 BK)

Polyamide 6, 40% glass fiber reinforced, heat-aging stabilized, for injection moulding, black

### General

Feature	Heat-aging stabilized	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	

#### **Product identification**

ISO 1043 abbreviation	PA6-GF40
ISO 16396 designation	PA6,GF40(R>55),M1H,S14-120

Physical properties			
Density	ISO 1183	g/cm³	1.47

Mechanical properties			dam / cond.*	
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	12100 / -
Stress at break	5 mm/min	ISO 527-1/-2	МРа	165 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3/-
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	65 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11/-
lzod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	60 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	11 / -

## Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210

### **Electrical properties**

Volume resistivity	IEC 62631-3-1	ohm.m	1E+016
Surface resistivity	IEC 62631-3-1	ohm	1E+014

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	Condition			
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		НВ
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	230 - 260 °C		
Recommended mould temperature	60 - 100 °C		

#### **Disclaimer**

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