

TECHNICAL DATA SHEET

TECHNYL 4EARTH C5E 216 V15 BK H
ECONAMID FL 6G15 201



Recycled polyamide 6, 15% glass fiber reinforced, for injection moulding, black

General

Polymer type	PA6
Certifications	RoHS EC 1907/2006 (REACH)
Feature	recycled
Colors available	black
Forms	pellets
Processing technology	injection moulding

Product identification

ISO 1043 abbreviation	PA6(REC)-GF15
ISO 16396 designation	PA6,GF15(R100),M,S14-050

Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.2
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.5
Molding shrinkage, normal		ISO 294-4, 2577	%	0.7 - 0.9

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	5200 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	125 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	4 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	5.5 / -

*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E13

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

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.

Injection advice

For unfilled polyamides, Domo recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.