

TECHNICAL DATA SHEET

TECHNYL C 218 S30 BK

DOMAMID 6B30H2 BK

Polyamide 6, 30% glass beads, heat-aging stabilized, for injection moulding, black

General

Certifications	RoHS		
Polymer type	PA6		
Feature	heat-aging stabilized	low warpage	
Processing technology	injection moulding		

Product identification

ISO 1043 abbreviation	PA6-GB30
ISO 16396 designation	PA6,GB30,MH,S14-040

Condition	Standard	Unit	Value
-----------	----------	------	-------

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2 - 2.6
Water absorption	24 hr, 23°C	ISO 62	%	0.75
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.8 - 1.0
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1.0
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145.0

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4000 / 1100
Stress at break	5 mm/min	ISO 527-1/-2	MPa	60 / 30
Yield stress	5 mm/min	ISO 527-1/-2	MPa	65 / 30
Yield strain	5 mm/min	ISO 527-1/-2	%	2.5 / 10
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3500 / 1000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	100 / 40
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	30 / 95
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	30 / 30
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	3 / 8.5
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	2.5 / 2.5

*: **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				
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

Processing conditions	
Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	240 - 280 °C
Recommended mould temperature	70 - 90 °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.

TECHNYL®

DOMO
caring is our formula

TECHNICAL DATA SHEET

TECHNYL C 218 S30 BK

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (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.