

TECHNICAL DATA SHEET

TECHNYL C 238 V15 BK

DOMAMID 6G15H2 202 BK

Polyamide 6, 15% glass fiber reinforced, heat-aging stabilized, for injection moulding, black

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA6	
Feature	heat-aging stabilized	impact modified
Applications	automotive applications	
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA6-I-GF15
ISO 16396 designation	PA6-I,GF15,MHP,S14-060

Condition	Standard	Unit	Value
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Physical properties

Condition	Standard	Unit	Value	
Density	ISO 1183	g/cm ³	1.23	
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.4 - 2.8
Water absorption	24 hr, 23°C	ISO 62	%	1.5 - 1.6
Water absorption, saturation			%	7.5
Molding shrinkage, parallel	ISO 294-4, 2577	%		0.4 - 0.6
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	5700 / 3100
Stress at break	5 mm/min	ISO 527-1/-2	MPa	120 / 65
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 14
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	4800 / 2600
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	180 / 105
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	45 / 80
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	35 / 50
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6 / 15
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	5 / 4.5

*: **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	250 - 290 °C		
Recommended mould temperature	80 - 100 °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.

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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.