TECHNYL®

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TECHNICAL DATA SHEET

TECHNYL C 238 V15 BK

(Previously DOMAMID 6G15H2 202 BK)

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

General

Feature	Heat-aging stabilized	Impact modified
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Automotive Applications	
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6-GF15
ISO 16396 designation	PA6,GF15,M1H,S14-060

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.23
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.8
Water absorption	24 hr, 23°C	ISO 62	%	1.5 - 1.6
Water absorption, saturation			%	7
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	115 / 65
Strain at break	5 mm/min	ISO 527-1/-2	%	4.2 / 13
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/m²	45 / 60
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	35 / 50
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	6 / 15
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	5 / 4.5
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Burning behaviour				
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).
**: 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	250 - 290 °C
Recommended mould temperature	80 - 100 °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.

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