

TECHNICAL DATA SHEET

TECHNYL C 218 MB40 V20 BK

(Previously DOMAMID 6GM6020H2 211 BK)

Polyamide 6, 60% glass fiber and mineral filler, 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-(GF20+MD40)
ISO 16396 designation	PA6,(GF+MD)60,M1H,S14-090

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.95
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.3
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.1 - 0.3
Molding shrinkage, normal		ISO 294-4, 2577	%	0.5 - 0.7
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	30

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9200 / 6800
Stress at break	5 mm/min	ISO 527-1/-2	MPa	125 / 85
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 6
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9500 / 6700
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	60 / 65
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	60 / 60
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	12 / 18
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	10 / 10

Thermal properties

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

Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min
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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	260 - 290 °C
Recommended mould temperature	60 - 80 °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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