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TECHNICAL DATA SHEET

TECHNYL C 238SI V10 BK 9177

(Previously DOMAMID 6G10IK2H2 BK99177)

Polyamide 6, 10% glass fiber reinforced, heat-aging stabilized, low temperature impact modified, for injection moulding

General

Feature	Heat-aging stabilized	Low temperature impact modified
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	

Product identification

ISO 1043 abbreviation	PA6-I-GF10
ISO 16396 designation	PA6-I,GF10,M1H,S14-040

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.16
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.7 - 0.9
Molding shrinkage, normal		ISO 294-4, 2577	%	1 - 1.2
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4000 / 2000
Stress at break	5 mm/min	ISO 527-1/-2	MPa	85 / 45
Strain at break	5 mm/min	ISO 527-1/-2	%	4 / 7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3400 / 2000
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	60 / 70
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	50 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	12 / 25
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	4 / -
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
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.

Disclaimer

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