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TECHNICAL DATA SHEET

TECHNYL C 219 V30 WT 1175

(Previously DOMAMID 6G30H1 WT91175)

Polyamide 6, 30% glass fiber reinforced, heat-aging stabilized, for injection molding

General

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

Product identification

ISO 1043 abbreviation	PA6,GF30
ISO 16396 designation	PA6,GF30,M1H,S14-100

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.41
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / -
Stress at break		ISO 527-1/-2	MPa	135 / -
Strain at break		ISO 527-1/-2	%	2.5 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8500 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	225 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	65 / -
Charpy notched impact strength		ISO 179/1eA	kJ/m²	9.5 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	60 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	9.5 / -

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Thermal properties

	Condition	Standard	Unit	Value
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	219
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	205
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	212

Burning behaviour

Flammability, 1.5 mm	1.5 mm	UL 94		HB
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	260 - 290 °C
Recommended mould temperature	60 - 90 °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