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TECHNICAL DATA SHEET

TECHNYL C 219 V30 BK 9258

(Previously DOMAMID 6G30H1 BK99258)

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

General

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

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,M1H,S14-070

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.36
Water absorption	24 hr, 23°C	ISO 62	%	2.3
Viscosity number	96% H2SO4	ISO 307	cm³/g	145
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	7500 / 5100
Stress at break	5 mm/min	ISO 527-1/-2	MPa	150 / 90
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	7700 / 4500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	210 / 145
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	50 / 80
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	50 / 52
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	8 / 16
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	5 / 6
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013

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	Condition	Standard	Unit	Value

Burning behaviour

UL Yellow Card availability	Click here to have access to the UL Yellow Card → E170540-225450			
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 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	240 - 270 °C
Recommended mould temperature	90 - 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