

TECHNICAL DATA SHEET

TECHNYL C 216 V30 NC 923 D

(Previously DOMAMID 6G30 923 NC)

Polyamide 6, 30% glass fiber reinforced, for injection moulding, natural color

General

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,M1,S14-090		

Condition	Standard	Unit	Value
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Physical properties


Condition	Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%
Water absorption	24 hr, 23°C	ISO 62	%
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.25 - 0.45
Molding shrinkage, normal	ISO 294-4, 2577	%	0.85 - 1.05
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min
Viscosity number	96% H2SO4	ISO 307	cm ³ /g

Mechanical properties

Condition	Standard	Unit	dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa
Stress at break		ISO 527-1/-2	MPa
Strain at break		ISO 527-1/-2	%
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²

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

Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+015
Surface resistivity		IEC 62631-3-1	ohm	1E+014

Burning behaviour				
UL Yellow Card availability 	Click here to have access to the UL Yellow Card → QMFZ2.E170540			
Flammability, 0.75 mm	0.75 mm	UL 94		HB
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
*: 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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