TECHNYL®

DOMO caring is our formula

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
Physical properties				
Density		ISO 1183	g/cm³	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.1
Water absorption	24 hr, 23°C	ISO 62	%	6.6
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	cm³/10 min	40
Viscosity number	96% H2SO4	ISO 307	cm³/g	145
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9500 / 5300
Stress at break		ISO 527-1/-2	MPa	175 / 100
Strain at break		ISO 527-1/-2	%	3.4 / 6.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	7800 / 4800
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	260 / 150
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	85 / 100
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	75 / 75
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 20
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	11 / -

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	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 (UL)	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.