TECHNYL®

DOMO
caring is our formula

TECHNICAL DATA SHEET

TECHNYL C 216 V60 NC

(Previously DOMAMID 6LVG60 NC)

Polyamide 6, 60% glass fiber reinforced, improved flowability, for injection moulding, natural color

General

Feature	Improved flowability
Polymer type	PA6 (Polyamide 6)
Processing technology	Injection molding
Certification	RoHS

Product identification

ISO 1043 abbreviation	PA6-GF60
ISO 16396 designation	PA6,GF60,M1,S12-220

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.68
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.1
Water absorption	24 hr, 23°C	ISO 62	%	4
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.1 - 0.3
Molding shrinkage, normal		ISO 294-4, 2577	%	0.3 - 0.5
Viscosity number	96% H2SO4	ISO 307	cm³/g	125

TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET **TECHNYL C 216 V60 NC**

	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	20500 / 12500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	240 / 150
Strain at break	5 mm/min	ISO 527-1/-2	%	2.5 / 4.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	18500 / 12000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	370 / 240
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	85 / 95
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	80 / 80
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	17 / 23
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	12 / 13
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	80 / 95
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	17 / 24
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	210
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Comparative tracking index	Solution A	IEC 60112	V	500
CTI performance level category		Sol A		PLC 1
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	650
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 - 280 °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