TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL B 216 V30 NC

TECHNYL B 216 V30 NC is a Copolyamide 66/6, reinforced with 30% of glass fibre, for injection moulding. This grade offers an excellent combination between impact resistance, rigidity, thermal resistance and surface appearance.

General

Certifications	RoHS EC 1907/2006 (REACH)	UL listed product
Polymer type	PA66/6 copolymer	
Feature	good surface finish	not heat stabilized
Applications	electrical/electronic applications handles	general purpose
Colors available	black grey	natural
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA66/6-GF30
ISO 16396 designation	PA66/6,GF30,M,S14-100

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.37
Water absorption	24 hr, 23°C	ISO 62	%	0.9 - 1.0
Water absorption, saturation			%	6.0
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.0 - 0.3
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.0

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / 5600
Stress at break		ISO 527-1/-2	MPa	185 / 115
Strain at break		ISO 527-1/-2	%	3 / 6.9
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	7600 / 4700
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	235 / 140
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	80 / 92
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 16
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	11 / 19

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	242
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	225

	Condition	Standard	Unit	Value
Burning behaviour				
UL Yellow Card availability 1	**Click here to have access to the UL Yellow Card availability 1 -> QMFZ2.E44716**			
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Oxygen index			%	23.0
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

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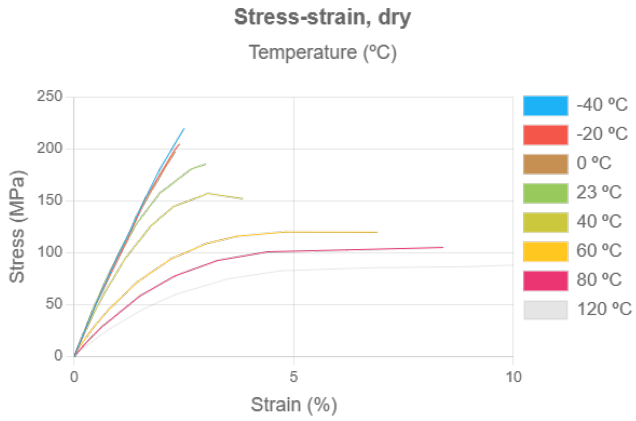
	Condition	Standard	Unit	Value

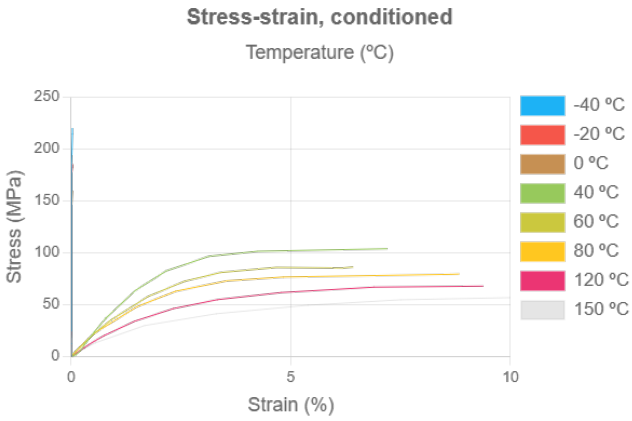
Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	6.0E15
Dielectric strength	1 mm	IEC 60243-1	kV/mm	30.0

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	255 - 265 °C
Middle temperature	260 - 270 °C
Front temperature	270 - 280 °C
Recommended mould temperature	70 - 100 °C





Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.,The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.