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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 217 NC S

TECHNYL A 217 NC S is an unreinforced polyamide 66, heat stabilized, standard viscosity, for injection moulding. This grade offers all the primary properties of unreinforced polyamide 66. In addition it has improved resistance to high temperature and it can be used for components which have to withstand mid term temperature stresses. This grade can also be vacuum metalized with very good surface quality and adhesion of the aluminum surface.

General

Feature	Heat-aging stabilized	Metallizable
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card European Railways Certifications EN 45545-2
Applications	Connectors	
Colors available	Black	Natural
Forms	Pellets	

Product identification

ISO 1043 abbreviation PA66

	Condition			
Physical properties				
Density		ISO 1183	g/cm³	1.14
Water absorption	24 hr, 23°C	ISO 62	%	1.3
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.5
Molding shrinkage, normal		ISO 294-4, 2577	%	1.7

Mechanical properties			dam / cond.*	
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3200 / 1500
Stress at break		ISO 527-1/-2	МРа	55 / 50
Strain at break		ISO 527-1/-2	%	30 / 100
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2900 / 1450
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	120 / 50
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	75 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	5.5 / 14
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4/12

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	Condition			
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	263
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	75
Electrical properties			1	
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Volume resistivity Surface resistivity		IEC 62631-3-1	ohm.m	1E+013 1E+015

Burning behaviour

UL Yellow Card availability 🕕	Click here to have access to the UL Yellow Card → QMFZ2.E44716			
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Flammability, 3.0 mm	3.0 mm	UL 94		V2
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650

^{*:} conditioned according to ISO 1110

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	265 - 275 °C
Middle temperature	270 - 280 °C
Front temperature	280 - 285 °C
Recommended mould temperature	60 - 80 °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 unfilled polyamides, Domo recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (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.

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Disclaimer

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