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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 222 NC

TECHNYL A 222 NC is an unfilled polyamide 66, heat stabilized, medium viscosity, for injection moulding, fast crystallization, for short cycles. This grade offers a good combination between primary properties of the unreinforced polyamide 66 and processing properties leading to increased productivity. These performances are associated with excellent dimensional stability and good rigidity of moulded parts.

General

Feature	Heat-aging stabilized	Fast molding cycle		
Polymer type	PA66 (Polyamide 66)	PA66 (Polyamide 66)		
Processing technology	Injection molding	Injection molding		
Certification	RoHS	EC 1907/2006 (REACH)		
Applications	Connectors Industrial Applications	Consumer good application		
Colors available	Black	Natural		
Forms	Pellets			

Product identification

ISO 1043 abbreviation	PA66			
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Physical properties				
Density		ISO 1183	g/cm³	1.14
Water absorption	24 hr, 23°C	ISO 62	%	1.1
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.2
Molding shrinkage, normal		ISO 294-4, 2577	%	1.4

Mechanical properties			dam / cond.*		
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	3600 / 1700	
Stress at break		ISO 527-1/-2	МРа	90 / 50	
Strain at break		ISO 527-1/-2	%	20 / 200	
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	3000 / 1400	
Flexural strength, ISO 178	2 mm/min	ISO 178	МРа	125 / 50	
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	4.5 / 15	
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4 / 12	

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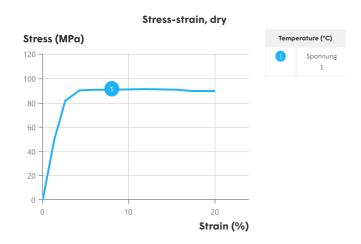


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	Condition			
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	263
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	75
Electrical properties Volume resistivity Surface resistivity		IEC 62631-3-1	ohm.m	1E+013 1E+015
Surface resistivity				
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	700

^{*:} conditioned according to ISO 1110

Processing conditions

1 Toolsoning Contamons		
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	



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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.

Disclaimer

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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