



TECHNICAL DATA SHEET

TECHNYL A 222 BK 1N

TECHNYL A 222 BK 1N 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)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Automotive Applications Industrial Applications Aerosol valve	Consumer good application pump / compressor / ventilator
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

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3700 / 1700
Stress at break		ISO 527-1/-2	MPa	80 / 50
Strain at break		ISO 527-1/-2	%	20 / 200
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3000 / 1400
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	125 / 50
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	3/10
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4 / 12





700

			TECHNYL A 222 BK 1N	
Condition				
	ISO 11357-1	°C	263	
0.45 MPa	ISO 75	°C	223	
1.80 MPa	ISO 75	°C	75	
	IEC 62631-3-1	ohm.m	1E+013	
	IEC 62631-3-1	ohm.m	1E+013	
	IEC 62631-3-1	ohm	1E+015	
1 mm	IEC 60243-1	kV/mm	22	
	0.45 MPa 1.80 MPa	ISO 11357-1 0.45 MPa ISO 75 1.80 MPa ISO 75 IEC 62631-3-1 IEC 62631-3-1	ISO 11357-1 °C 0.45 MPa ISO 75 °C 1.80 MPa ISO 75 °C IEC 62631-3-1 ohm.m IEC 62631-3-1 ohm	

^{*:} conditioned according to ISO 1110

Glow-wire flammability index, GWFI, 1.5

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

IEC 60695-2-12

°C

1.5 mm

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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