TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL A 256P1 BK 2N

TECHNYL A 256P1 BK 2N is an unfilled polyamide 66, impact modified for injection moulding. This grade offers an excellent impact resistance at ambient and low temperature and a high flexibility.

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA66	
Feature	high impact resistant	low temperature impact resistant
Applications	consumer applications industrial applications	fasteners
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA66

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.07
Water absorption	24 hr, 23°C	ISO 62	%	0.7

TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL A 256P1 BK 2N

	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	950 / -
Stress at break		ISO 527-1/-2	MPa	40 / -
Strain at break		ISO 527-1/-2	%	250 / -
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	60 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	70 / -
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	9 / -

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	105
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	44

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100 mm/min

	Condition	Standard	Unit	Value
Electrical properties				
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22.0

Processing conditions	
Drying temperature/time	80 °C
Suggested max moisture	0.2 %

Processing conditions

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.