TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL A 258P1 BK 2N

TECHNYL A 258P1 BK 2N is an unreinforced and modified polyamide 66, UV and thermal stabilized for injection moulding. This grade offers two main advantages: an excellent impact resistance at ambient and low temperature and a high flexibility.

General

Feature	Heat-aging stabilized Low temperature impact resistant	High impact resistant
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Consumer good application Industrial Applications	Fasteners
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.07
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	1180 / -
Stress at break		ISO 527-1/-2	MPa	44 / -
Strain at break		ISO 527-1/-2	%	250 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	90 / -
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	12 / -
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	260
Electrical properties				
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22

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Burning behaviour

	Condition	Standard	Unit	Value
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Flammability, 1.5 mm	1.5 mm	UL 94		HB

**: 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.

Disclaimer