

TECHNICAL DATA SHEET

TECHNYL C 202TR NC

TECHNYL PSB 231 NATURAL

TECHNYL C 202TR NC is an unreinforced high transparency polyamide 6, for injection moulding. This grade offers good mechanical properties and high transparency till 2-2,5 mm of thickness. Due to its benefits, it is adequate for applications which request transparency at low thickness.

General

Polymer type	PA6
Certifications	RoHS EC 1907/2006 (REACH)
Applications	consumer applications
Colors available	natural
Forms	pellets
Processing technology	injection moulding

Product identification

ISO 1043 abbreviation	PA6
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Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.13
Water absorption	24 hr, 23°C	ISO 62	%	1.3

Condition	Standard	Unit	Value
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Mechanical properties

	Condition	Standard	Unit	Value
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	2700 / 1000
Strain at break		ISO 527-1/-2	%	120 / 250
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	4.2 / 70

*: **conditioned according to ISO 1110**

Condition	Standard	Unit	Value
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Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	222
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	70

Condition	Standard	Unit	Value
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Burning behaviour

Flammability, 1.5 mm	1.5 mm	UL 94		V2
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Condition	Standard	Unit	Value
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Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E13

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	225 - 230 °C
Middle temperature	230 - 235 °C
Front temperature	230 - 240 °C
Recommended mould temperature	20 - 40 °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.