TECHNYL®

DOMO
caring is our formula

TECHNICAL DATA SHEET

TECHNYL C 202TR NC

(Previously 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 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Consumer good application	
Colors available	Natural	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.13
Water absorption	24 hr, 23°C	ISO 62	%	1.3
Mechanical properties				**dam / cond.***
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/m²	4.2 / 70
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
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013

TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET **TECHNYL C 202TR NC**

Burning behaviour

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

**: conditioned according to ISO 1110*

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.

Disclaimer