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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL C 202 NC

(Previously DOMAMID 6 NC01)

Polyamide 6, for injection moulding, natural color

General

Feature	UL V2	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card

Product identification

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M1,S14-030

	Condition			
Physical properties				
Density		ISO 1183	g/cm³	1.14
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3.3 - 3.4
Water absorption	24 hr, 23°C	ISO 62	%	1.9 - 2
Water absorption, saturation			%	9.1
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal		ISO 294-4, 2577	%	1 - 1.2
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm³/10 min	165
Viscosity number	96% H2SO4	ISO 307	cm³/g	145

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V2

850

750

< 100 mm/min

				TECHNYL C 202 N
	Condition			
Mechanical properties				dam / cond.
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3200 / 1000
Strain at break	50 mm/min	ISO 527-1/-2	%	20 / 50
Yield stress	50 mm/min	ISO 527-1/-2	MPa	80 / 40
Yield strain	50 mm/min	ISO 527-1/-2	%	4 / 20
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2800 / 900
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	105 / 35
Charpy impact strength, +23°C	+23°C	ISO 179/1eU		NB / NB
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	150 / NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	4.5 / 20
Izod impact strength, +23°C	+23°C	ISO 180/1U		NB / NB
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4.5 / 19
Rockwell hardness		ISO 2039/2	ScaleR	120 / -
Thermal properties Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	175
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	65
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	200
Electrical properties				
		IEC 62631-3-1	ohm.m	1E+016
Volume resistivity			The state of the s	
Volume resistivity Surface resistivity		IEC 62631-3-1	ohm	1E+014
<u> </u>	Solution A	IEC 62631-3-1 IEC 60112	ohm V	1E+014 600

UL 94

IEC 60695-2-12

IEC 60695-2-12

FMVSS 302

°C

°C

Test run at 23°C if not differently specified, DAM state (dry as moulded). *: conditioned according to ISO 1110

0.75 mm

3.0 mm

1.0 mm

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mm

Flammability, 0.75 mm

Glow-wire flammability index, GWFI, 3.0

Glow-wire flammability index, GWFI

Burning rate, FMVSS, Thickness 1 mm

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Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)	
Recommended melt temperature	230 - 250 °C	
Recommended mould temperature	60 - 90 °C	

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.



Disclaimer

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