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TECHNICAL DATA SHEET

TECHNYL C 116S BK 21N

(Previously DOMAMID 6LV 302 BK999)

Polyamide 6, improved flowability, for injection moulding, black

General

Feature	Improved flowability	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	UL-Yellow Card

Product identification

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M1,S12-030

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.12
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm³/10 min	190
Melt volume-flow rate, MVR, 2.16 kg	275°C, 2,16 kg	ISO 1133	cm³/10 min	130
Viscosity number	96% H2SO4	ISO 307	cm³/g	130
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3000 / -
Stress at break	50 mm/min	ISO 527-1/-2	MPa	40 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	5 / -
Yield stress	50 mm/min	ISO 527-1/-2	MPa	84 / -
Yield strain	50 mm/min	ISO 527-1/-2	%	3.6 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	NB / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	4 / -

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	Condition	Standard	Unit	Value
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	155
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	63
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	202
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Burning behaviour				
UL Yellow Card availability		Click here to have access to the UL Yellow Card → E170540-100053880		
Flammability, 0.75 mm	0.75 mm	UL 94		V2
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Flammability, 3.0 mm	3.0 mm	UL 94		V2

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

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	240 - 280 °C
Recommended mould temperature	60 - 80 °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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