

## 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
<b>Physical properties</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.12
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm <sup>3</sup> /10 min	190
Melt volume-flow rate, MVR, 2.16 kg	275°C, 2,16 kg	ISO 1133	cm <sup>3</sup> /10 min	130
Viscosity number	96% H2SO4	ISO 307	cm <sup>3</sup> /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/m <sup>2</sup>	NB / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	4 / -

	Condition	Standard	Unit	Value
<b>Thermal properties</b>				
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 → <a href="https://www.ul.com/Products/Plastics/TECHNYL-C-116S-BK-21N">E170540-100053880</a>			
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.

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