



TECHNICAL DATA SHEET

TECHNYL C 116 BL 5130

(Previously DOMAMID 6LV 100 BL55130)

Polyamide 6, improved flowability, for injection moulding

General

Feature	Improved flowability		
Polymer type	PA6 (Polyamide 6)	PA6 (Polyamide 6)	
Processing technology	Injection molding	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card	
Colors available	Black Blue Red	Grey White	
Forms	Pellets		

Product identification

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

Physical properties				
Density		ISO 1183	g/cm³	1.13
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3.3 - 3.4
Water absorption	24 hr, 23°C	ISO 62	%	1.8 - 1.9
Water absorption, saturation			%	9.1

Mechanical properties			dam / cond.*	
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	2900 / -
Strain at break		ISO 527-1/-2	%	16/-
Yield stress		ISO 527-1/-2	MPa	70 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	2600 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU		NB / NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	5/-
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	5/-

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	Condition			
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	188
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	62
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	200
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Flammability, 0.75 mm	0.75 mm	UL 94		V2
UL Yellow Card availability 🕕		Click here	e to have access to the UL`	Yellow Card → E1705
·				
Flammability, 1.5 mm	1.5 mm 3.0 mm	UL 94 UL 94		V2 V2
Flammability, 3.0 mm Glow-wire flammability index, GWFI, 0.75 mm	0.75 mm	IEC 60695-2-12	°C	960
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	960
	3.0 mm	IEC 60695-2-12	°C	960
Glow-wire flammability index, GWFI, 3.0 mm Glow-wire ignition temperature, GWIT, 0.75 mm	3.0 mm 0.75 mm	IEC 60695-2-12	°C	960 960
mm Glow-wire ignition temperature, GWIT,				
mm Glow-wire ignition temperature, GWIT, 0.75 mm Glow-wire ignition temperature, GWIT, 1.5	0.75 mm	IEC 60695-2-13	°C	960

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	





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