

TECHNICAL DATA SHEET

## TECHNYL C 216L1 BR 8062 XB

### DOMAMID 6UV1 BW88062XB

Polyamide 6, UV-stabilized, for injection moulding

#### General

Polymer type	PA6		
Certifications	RoHS	EC 1907/2006 (REACH)	
Feature	UV stabilized		
Colors available	black white	natural	
Forms	pellets		
Processing technology	injection moulding		

#### Product identification

ISO 1043 abbreviation	PA6		
ISO 16396 designation	PA6,M1L1,S14-030		

Condition	Standard	Unit	Value
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#### Physical properties

Condition	Standard	Unit	Value	
Density	ISO 1183	g/cm <sup>3</sup>	1.14	
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.9 - 1.1	
Molding shrinkage, normal	ISO 294-4, 2577	%	1.0 - 1.2	
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm <sup>3</sup> /10 min	>=165.0
Viscosity number	96% H2SO4	ISO 307	cm <sup>3</sup> /g	145.0

	Condition	Standard	Unit	Value
<b>Mechanical properties</b>				<b>dam / cond.*</b>
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3200 / 1000
Strain at break		ISO 527-1/-2	%	40 / 50
Yield stress		ISO 527-1/-2	MPa	80 / 40
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2800 / 900
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	105 / 35
Rockwell hardness		ISO 2039/2	ScaleR	120 / -

\*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
<b>Thermal properties</b>				
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	50Å°C/h - 50N	ISO 306	°C	200

	Condition	Standard	Unit	Value
<b>Burning behaviour</b>				
Flammability, 0.75 mm	0.75 mm	UL 94		V2
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	750
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100

	Condition	Standard	Unit	Value
<b>Electrical properties</b>				
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E16
Surface resistivity		IEC 62631-3-1	ohm	1.0E14
Comparative tracking index	Solution A	IEC 60112	V	600.0
CTI performance level category		Sol A		PLC 0

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## Processing conditions

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