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TECHNICAL DATA SHEET

TECHNYL C 116 S15 NC

(Previously DOMAMID 6LVB15 300 NC)

Polyamide 6, 15% glass beads, improved flowability, for injection moulding, natural color

General

Feature	Improved flowability	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Colors available	Natural	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6-GB15
ISO 16396 designation	PA6,GB15,M1,S12-030

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.23
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.6
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.1
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm³/10 min	190
Viscosity number	96% H2SO4	ISO 307	cm³/g	125

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3600 / 1050
Stress at break	5 mm/min	ISO 527-1/-2	MPa	70 / 20
Strain at break	5 mm/min	ISO 527-1/-2	%	10 / 150
Yield stress	5 mm/min	ISO 527-1/-2	MPa	75 / 40
Yield strain		ISO 527-1/-2	%	4 / 12
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3100 / 900
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	105 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	19 / 180
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	20 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	3 / -
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	165
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	65
Burning behaviour				
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

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	230 - 260 °C
Recommended mould temperature	80 - 100 °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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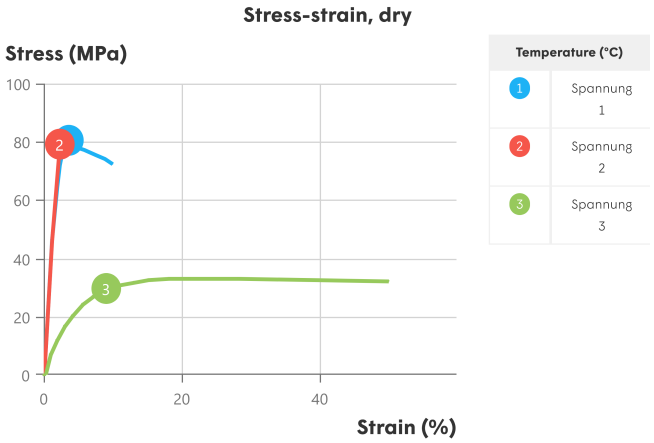

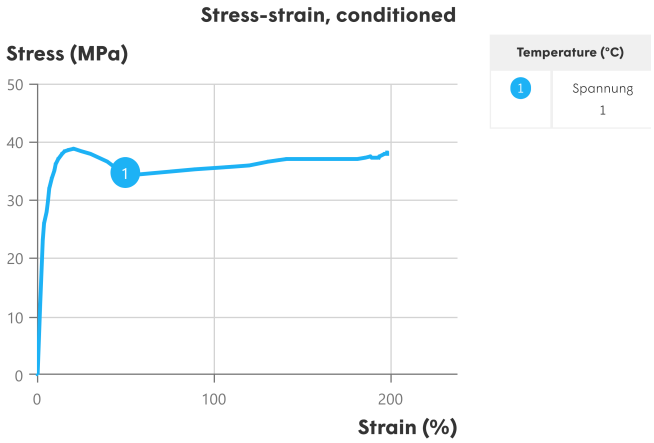

Disclaimer

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