

## TECHNICAL DATA SHEET

# TECHNYL A 216S V15 NC

(Previously DOMAMID 66G15)

Polyamide 66, 15% glass fiber reinforced, for injection moulding

### General

Polymer type	PA66 (Polyamide 66)
Processing technology	Injection molding
Certification	RoHS

### Product identification

ISO 1043 abbreviation	PA66-GF15
ISO 16396 designation	PA66,GF15,M1,S14-060

Condition	Standard	Unit	Value
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### Physical properties

Condition	Standard	Unit	Value	
Density	ISO 1183	g/cm <sup>3</sup>	1.23	
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.9 - 2.5
Water absorption	24 hr, 23°C	ISO 62	%	6.7 - 7.3
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.4 - 0.6	
Molding shrinkage, normal	ISO 294-4, 2577	%	0.9 - 1.1	
Viscosity number	96% H2SO4	ISO 307	cm <sup>3</sup> /g	145

### Mechanical properties

Condition	Standard	Unit	Value	
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	6000 / 3950
Stress at break	5 mm/min	ISO 527-1/-2	MPa	120 / 80
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 12.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	5100 / 3400
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	190 / 115
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	40 / 75
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	6.5 / 9.5
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m <sup>2</sup>	35 / 70
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m <sup>2</sup>	6 / 9

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<b>Thermal properties</b>				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	245
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	230
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	245

## Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Comparative tracking index	Solution A	IEC 60112	V	500
CTI performance level category		Sol A		PLC 1

## Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	650
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), valid for natural colored products.  
\*: 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	270 - 290 °C			
Recommended mould temperature	90 - 110 °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.