

TECHNICAL DATA SHEET

TECHNYL A 216S V30 RD 3182 XB

(Previously DOMAMID 66G30 RD33182XB)

Polyamide 66, 30% glass fiber reinforced, for injection moulding

General

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

Product identification

ISO 1043 abbreviation	PA66-GF30
ISO 16396 designation	PA66,GF30,M1,S14-100

Condition	Standard	Unit	Value
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Physical properties

Condition	Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%
Water absorption	24 hr, 23°C	ISO 62	%
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal	ISO 294-4, 2577	%	0.7 - 0.9
Viscosity number	96% H2SO4	ISO 307	cm ³ /g

Mechanical properties

Condition	Standard	Unit	Value
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa
Stress at break	5 mm/min	ISO 527-1/-2	MPa
Strain at break	5 mm/min	ISO 527-1/-2	%
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	255
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	250
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	255

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.