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TECHNYL® SLIDE
Friction & wear resistance

DOMO
caring is our formula

TECHNICAL DATA SHEET

TECHNYL SLIDE A 216 V30 TF15 BK

(Previously DOMAMID L 66G30TF15)

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

General

Feature	Improved tribological properties	
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Colors available	Black	
Forms	Pellets	

Product identification

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

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.48

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	155 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	2.5 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9500 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	225 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	50 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	50 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	10 / -

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	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	260
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
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
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	280 - 300 °C
Recommended mould temperature	80 - 120 °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.

Injection notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

Disclaimer