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TECHNYL® MAX
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TECHNICAL DATA SHEET

TECHNYL MAX A 219 XV50 BR 8065

(Previously DOMAMID XS 66V50H1 BW88065)

Polyamide 66, 50% glass fiber reinforced, heat-aging stabilized, for injection moulding

General

Feature	Heat-aging stabilized	
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Colors available	Black	Grey
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66-GF50
ISO 16396 designation	PA66,GF50,M1H,S14-190

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.59
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.4
Water absorption	24 hr, 23°C	ISO 62	%	4
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	17000 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	200 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	15000 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	275 / -
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	10 / -
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	245

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	Condition	Standard	Unit	Value

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	10000000000

Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100

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 - 305 °C
Recommended mould temperature	70 - 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.

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.

Disclaimer

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