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TECHNICAL DATA SHEET

TECHNYL A 239 V35 BK

(Previously DOMAMID 66G35H1 500 BK)

Polyamide 66, 35% glass fiber reinforced, heat-aging stabilized, improved impact resistance, for injection moulding

General

Feature	UL HB Improved impact resistance	Heat-aging stabilized
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	UL-Yellow Card

Product identification

ISO 1043 abbreviation	PA66-I-GF35
ISO 16396 designation	PA66-I,GF35,M1H,S14-100

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.38
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9700 / 8000
Stress at break	5 mm/min	ISO 527-1/-2	MPa	175 / 135
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8500 / 7000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	260 / 205
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	80 / 95
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	14 / 20
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	75 / 90
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	13 / 18
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	250

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	Condition	Standard	Unit	Value

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

UL Yellow Card availability		Click here to have access to the UL Yellow Card → E170540-225461		
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 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	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.

Disclaimer