

TECHNICAL DATA SHEET

TECHNYL PROTECT A 30G1 A GN 6009
(Previously DOMAMID FR 66V0A)

Polyamide 66, halogenated flame retardant, heat-aging stabilized, for injection moulding

General

Feature	UL V0 Heat-aging stabilized	Halogenated flame retardant
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66 FR(17)
ISO 16396 designation	PA66,FR(17),M1H,S14-030

Condition	Standard	Unit	Value
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Physical properties

Condition	Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.38
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal	ISO 294-4, 2577	%	1 - 1.2

Mechanical properties

dam / cond.*

Condition	Standard	Unit	Value	
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3500 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	15 / -
Yield stress	50 mm/min	ISO 527-1/-2	MPa	75 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3000 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	100 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	120 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	110 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	5 / -

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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	205
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	90
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	230

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Comparative tracking index	Solution A	IEC 60112	V	350
CTI performance level category		Sol A		PLC 2

Burning behaviour

UL Yellow Card availability 	Click here to have access to the UL Yellow Card → E170540-100711591			
Flammability, 0.75 mm	0.75 mm	UL 94		V0
Flammability, 3.0 mm	3.0 mm	UL 94		V0
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	960
Glow-wire ignition temperature, GWIT	1-3 mm	IEC 60695-2-13	°C	850
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	70 - 90 °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

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