

TECHNICAL DATA SHEET

TECHNYL PROTECT C 60 MX10 V10 GY 7513  
(Previously DOMAMID FR 6GT2010V0E)

Polyamide 6, 20% glass fiber and mineral filler, heat-aging stabilized, halogen and red phosphorus free flame retardant, for injection moulding

General

Feature	UL V0 Heat-aging stabilized	Halogen and red phosphorus free flame retardant
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	

Product identification

ISO 1043 abbreviation	PA6-(GF10+MD10) FR(40)
ISO 16396 designation	PA6,(GF+MD)20FR(40),M1H,S14-080

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm <sup>3</sup>	1.37

Physical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	7900 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	85 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	6500 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	120 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	35 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	4.5 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m <sup>2</sup>	30 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m <sup>2</sup>	4.5 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
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	Condition	Standard	Unit	Value
<b>Electrical properties</b>				
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	575
CTI performance level category		Sol A		PLC 1

**Burning behaviour**

Flammability, 0.75 mm	0.75 mm	UL 94		V0
Flammability, 1.5 mm	1.5 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	750
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	240 - 260 °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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