



TECHNICAL DATA SHEET

TECHNYL PROTECT C 52G2 GY 7504

(Previously DOMAMID 6LVGT85 GY77504)

Polyamide 6 unfilled, for fire and electrical overall properties, with improved flowability, for injection moulding

Polyamide 6 unfilled, for fire and electrical overall properties, with improved flowability, for injection moulding

General

Feature	UL V2	Improved flowability
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	UL-Yellow Card

Product identification

ISO 1043 abbreviation	PA6PA6 FR(30)
ISO 16396 designation	PA6,M1,S12-030

Physical properties				
Density		ISO 1183	g/cm³	1.14
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.8 - 1
Molding shrinkage, normal		ISO 294-4, 2577	%	1 - 1.2
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	225
Viscosity number	96% H2SO4	ISO 307	cm³/g	125

Mechanical properties dam / cond.*

Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	3300 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	40 / -
Yield stress	50 mm/min	ISO 527-1/-2	MPa	85 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2800 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	105 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	NB / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	4/-
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	NB / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4/-
Rockwell hardness		ISO 2039/2	ScaleR	121 / -

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Page 1





V2

V2

850

725

< 100 mm/min

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	Condition				
Thermal properties					
Melting temperature, 10°C/min		ISO 11357-1	°C	221	
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	180	
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	70	
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	205	
Electrical properties					
Volume resistivity		IEC 62631-3-1	ohm.m	1E+016	
<u>, </u>		IEC 62631-3-1	ohm.m	1E+016 1E+014	
Volume resistivity Surface resistivity Comparative tracking index	Solution A				
Surface resistivity	Solution A	IEC 62631-3-1	ohm	1E+014	
Surface resistivity Comparative tracking index	Solution A	IEC 62631-3-1 IEC 60112 Sol A	ohm	1E+014 600 PLC 0	

UL 94

UL 94

IEC 60695-2-12

IEC 60695-2-13

FMVSS 302

°C

°C

Test run at 23° C if not differently specified, DAM state (dry as moulded), valid for natural colored products. *: conditioned according to ISO 1110

1.5 mm

3.0 mm

1-3 mm

1-3 mm

Glow-wire flammability index, GWFI

Glow-wire ignition temperature, GWIT

Burning rate, FMVSS, Thickness 1 mm

Processing conditions

Flammability, 1.5 mm

Flammability, 3.0 mm

Drying temperature/time	$75-85^{\circ}\text{C}$ / 2-4h (with dew point of dried air < -30 $^{\circ}\text{C}$)	
Recommended melt temperature	230 - 250 °C	
Recommended mould temperature	40 - 80 °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.





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Disclaimer

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