+135-3858-6433 (GuangDong)
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TECHNYL® PROTECT
Flame retardants

DOMO
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TECHNICAL DATA SHEET

TECHNYL PROTECT CF 60 V30 GY 7502

(Previously DOMAMID FR 6LVG30V0E 903 GY77502)

Polyamide 6, 30% glass fiber reinforced, halogen and red phosphorus free flame retardant, heat-aging stabilized, improved impact resistance, improved flowability, for injection moulding

General

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

Product identification

ISO 1043 abbreviation	PA6-GF30 FR(30+40)
ISO 16396 designation	PA6-I,GF30FR(40),M1H,S12-100

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.46
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.5 - 0.7
Viscosity number	96% H2SO4	ISO 307	cm³/g	110
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10500 / 6500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	135 / 85
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9600 / 5800
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	200 / 130
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	50 / 60
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	8 / 10
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	50 / 60
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	8 / 10

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	Condition	Standard	Unit	Value
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	215
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	205
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210
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	600
CTI performance level category		Sol A		PLC 0
Burning behaviour				
Flammability, 0.75 mm	0.75 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	775
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

**: 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 - 270 °C
Recommended mould temperature	80 - 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.

Disclaimer

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