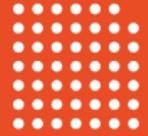


TECHNICAL DATA SHEET

TECHNYL PROTECT C 52G1 V30 GY 2408CF

TECHNYL C 52G1 V30 GREY 2408CF



TECHNYL PROTECT C 52G1 V30 GY 2408CF is a polyamide 6 based on a non-phosphorous and Non-halogenated flame retardant system, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This flame retardant grade with excellent moulding and electrical performance.

General

Polymer type	PA6		
Certifications	RoHS EC 1907/2006 (REACH)	UL listed product	
Feature	UL 94 V2 organic heat stabilized GWFI 960°C	halogen free flame retardant UV-laser markable	
Applications	electrical/electronic applications		
Colors available	grey		
Forms	pellets		
Processing technology	injection moulding		

Product identification

ISO 1043 abbreviation	PA6-GF30 FR(30)
ISO 16396 designation	PA6,GF30FR(30),MH,S14-070

Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.38
Water absorption	24 hr, 23°C	ISO 62	%	1.0

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	7400 / -
Stress at break		ISO 527-1/-2	MPa	90 / -
Strain at break		ISO 527-1/-2	%	2 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	35 / -

*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	220
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	190

	Condition	Standard	Unit	Value
Burning behaviour				
UL Yellow Card availability 1	Click here to have access to the UL Yellow Card availability 1 -> QMFZ2.E44716			
Flammability, 0.75 mm	0.75 mm	UL 94		V2
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Flammability, 3.0 mm	3.0 mm	UL 94		V2
Glow-wire flammability index, GWFI, 0.75 mm	0.75 mm	IEC 60695-2-12	°C	960
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	960
Glow-wire flammability index, GWFI, 3.0 mm			°C	960
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100mm/min

Condition	Standard	Unit	Value
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Electrical properties

Comparative tracking index	Solution A	IEC 60112	V	500.0
CTI performance level category		Sol A		PLC 1

Processing conditions

Drying temperature/time	7
Suggested max moisture	0.2 %
Rear temperature	230 - 235 °C
Middle temperature	235 - 240 °C
Front temperature	240 - 250 °C
Recommended mould temperature	60 - 90 °C

Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.

Injection advice

All reinforced, flame retardant compounds generate some level of abrasion/corrosion to the steel processing equipment. These issues may be magnified by using incorrect processing conditions (temperatures, residence time, moisture level ...) during the moulding process. Therefore, Domo recommends you adhere to the processing conditions detailed in this technical data sheet. For equipment that comes into contact with molten flame retardant compounds, Domo advises you to use a steel with high chromium and high carbon content (having a minimum concentration of 16% chromium) to prevent corrosion and abrasion. For the correct reference of steel associated to flame retardant compounds' processing, please refer to your equipment manufacturers. In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.,The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.