

FRIANYL® B3 GF30 V0 NC 1102/TS

FRIANYL®

Designed for Electrical applications requiring self-extinguishing properties combined with good mechanical performances, this grade meets the most stringent safety requirements for insulating materials.

Product information

Resin Identification	PA6-GF30FR(40)	ISO 1043
Part Marking Code	>PA6-GF30FR(40)<	ISO 11469

Rheological properties

	dry/cond.		
Melt volume-flow rate	5/*	cm ³ /10min	ISO 1133
Temperature	230/*	°C	
Load	5/*	kg	

Typical mechanical properties

	dry/cond.		
Tensile modulus	11000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	140/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	70/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	13/-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34/- ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225/*	°C	ISO 11357-1/-3

Flammability

	dry/cond.		
Burning Behav. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94
Railway classification	R22/R24		EN 45545-2
Railway classification rating	HL3/HL3		EN 45545-2

Physical/Other properties

	dry/cond.		
Density	1400/-	kg/m ³	ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.1 %
Melt Temperature Optimum	250 °C
Min. melt temperature	240 °C
Max. melt temperature	260 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C

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Max. mould temperature

90 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Additives	Flame retardant, Non-halogenated/Red phosphorous free flame retardant
Special characteristics	Flame retardant, Heat stabilised or stable to heat