

# FRIANYL<sup>®</sup> A3 GF25 V0XI

## **FRIANYL®**

Designed for Electrical applications requiring self-extinguishing properties combined with excellent ignition resistance, this grade meets the most stringent safety requirements for insulating materials.

### **Product information**

Resin Identification Part Marking Code	PA66-GF25FR(17) >PA66-GF25FR(17)<		ISO 1043 ISO 11469	
Rheological properties	dry/cond.			
Melt volume-flow rate Temperature Load	40/* 270/* 5/*	cm³/10min °C kg	ISO 1133	
Moulding shrinkage range, parallel Moulding shrinkage range, normal	0.2 - 0.5 0.5 - 0.8	% %	ISO 294-4, 2577 ISO 294-4, 2577	
Typical mechanical properties	dry/cond.			
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Flexural modulus Flexural strength Charpy impact strength, 23°C Charpy notched impact strength, 23°C Izod notched impact strength, 23°C Izod impact strength, 23°C Poisson's ratio [C]: Calculated	9800/- 145/- 2.3/- 8300/- 190/- >50/- 8/- 9/- 45/- 0.34/- <sup>[C]</sup>	MPa MPa % MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178/1eU ISO 179/1eU ISO 179/1eA ISO 180/1A ISO 180/1U	
Thermal properties	dry/cond.			
Temperature of deflection under load, 1.8 MPa	230/*	°C	ISO 75-1/-2	
Flammability	dry/cond.			
Burning Behav. at 1.5mm nom. thickn. Burning Behav. at thickness h Thickness tested UL recognition Glow Wire Flammability Index, 0.75mm Glow Wire Flammability Index, 3.0mm Glow Wire Ignition Temperature, 0.75mm Glow Wire Ignition Temperature, 3.0mm FMVSS Class	V-0/* V-0/* 0.35/* yes/* 960/- 960/- 825/- 875/- SE	class class mm °C °C °C °C °C	IEC 60695-11-10 IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-2-12 IEC 60695-2-12 IEC 60695-2-13 IEC 60695-2-13 IEC 60695-2-13 IEC 60695-2-13	
Electrical properties Comparative tracking index, 100 drops	35	0	IEC 60112	
			120 00112	

dry/cond.



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Humidity absorption, 2mm	1/*	%	
Water absorption, 2mm	3.7/*	%	
Density	1600/-	kg/m³	
Injection Drying Recommended	ye	es	

Sim. to ISO 62
Sim. to ISO 62
ISO 1183

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2-4 h
Processing Moisture Content	≤0.1 %
Melt Temperature Optimum	280 °C
Min. melt temperature	265 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	70 °C
Max. mould temperature	90 °C

### Characteristics

Processing	Injection Moulding
Delivery form	Granules
Additives	Flame retardant
Special characteristics	Flame retardant, Heat stabilised or stable to heat, Laser Markable

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