

FRIANYL[®] A3 GF25 V0XI NC 1101/L 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-GF25 FR(17) >PA66-GF25 FR(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 Clace impact strength, 23°C Charpy ratio [C]: Calculated	9800/- 145/- 2.3/- 8300/- 190/- >50/- 8/- 9/- 45/- 0.34/- ^[C]	MPa MPa % MPa kJ/m ² kJ/m ² kJ/m ²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA ISO 180/1A ISO 180/1U
Thermal properties Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa	dry/cond. 259 / * 230 / *	°C °C	ISO 11357-1/-3 ISO 75-1/-2
Flammability 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	dry/cond. 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 ISO 3795 (FMVSS 302)



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Electrical properties

Comparative tracking index, 100 drop	s 350	IEC 60112		
Physical/Other properties	dry/cond.			
Humidity absorption, 2mm Water absorption, 2mm Density	1/* % 3.7/* % 1600/- kg/m ³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183		
Injection				
Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature Ejection temperature	yes 80 °C 2 - 4 h ≤0.1 % 280 °C 265 °C 290 °C ≤0.2 m/s 80 °C 70 °C 90 °C 219 °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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