



FRIANYL® A3 GF25 V0 OR 2008/P

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 Part Marking Code Continuous Service Temperature	PA66-GF25 >PA66-GF25< 130	°C	ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Melt volume-flow rate Temperature Load	45/* 275/* 5/*	cm³/10min ° C kg	ISO 1133
Viscosity number Moulding shrinkage range, parallel Moulding shrinkage range, normal	130/* 0.3 - 0.6 0.6 - 1	cm³/g % %	ISO 307, 1628 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 Charpy notched impact strength, -40°C Poisson's ratio [C]: Calculated	8700/5700 110/68 2/3.9 8700/6000 180/130 35/- 4/6.5 4/- 0.34/0.35 ^[C]	MPa MPa % MPa MPa kJ/m² kJ/m² kJ/m²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA ISO 179/1eA
Thermal properties	dry/cond.		
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa	260/* 210/* 220/*	°C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Flammability	dry/cond.		
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	V-0/* 0.4/* yes/* 960/- 960/- 775/- 800/-	class mm °C °C °C	IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-2-12 IEC 60695-2-13 IEC 60695-2-13

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Revised: 2025-02-14 Source: Celanese Materials Database





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Electrical properties

dry/cond.

Comparative tracking index 600/- IEC 60112

Physical/Other properties

dry/cond.

Density 1400/- kg/m³ 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	285	°C
Min. melt temperature	270	°C
Max. melt temperature	300	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	80	°C
Min. mould temperature	60	°C
Max. mould temperature	100	°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

Automotive

OEM STANDARD ADDITIONAL INFORMATION

VW Group VW 50133 *Best Fitting Grade To PA66-5-A, Not Officially

Approved

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