



FRIANYL® A3 GF25 V0 OR 2008/PE

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.

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Resin Identification Part Marking Code Continuous Service Temperature	PA66-GF25 FR(- >PA66-GF25 FR 130		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Melt volume-flow rate Temperature Load	50/* 275/* 5/*	cm³/10min ° C kg	ISO 1133
Viscosity number	135/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 1	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	8800/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	104/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	32/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.5/-	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34/0.35 ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	258/*	°C	ISO 11357-1/-3
Flammability	dry/cond.		
Burning Behav. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.4/*	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94
Glow Wire Flammability Index, 0.75mm	960/-	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	960/-	°C	IEC 60695-2-12
Glow Wire Ignition Temperature, 0.75mm	775/-	°C	IEC 60695-2-13
Glow Wire Ignition Temperature, 3.0mm	800/-	°C	IEC 60695-2-13
Electrical properties	dry/cond.		
Comparative tracking index	600/-		IEC 60112
Physical/Other properties	dry/cond.		
Density	1400/-	kg/m³	ISO 1183
Density	1400/-	Ng/III	130 1103

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





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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 Non-halogenated/Red phosphorous free flame retardant

Special characteristics 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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