

# 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.*

### Product information

Resin Identification	PA66-GF25 FR(40)	ISO 1043
Part Marking Code	>PA66-GF25 FR(40)<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Melt volume-flow rate	50 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	
Load	5 / *	kg	
Viscosity number	135 / *	cm <sup>3</sup> /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

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/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.5 / -	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34 / 0.35 <sup>[C]</sup>		
[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/m <sup>3</sup>	ISO 1183

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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