

FRIANYL® A3 GF25 V0XI BK 7021/A

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-GF25 FR(17)	ISO 1043
Part Marking Code	>PA66-GF25 FR(17)<	ISO 11469
Continuous Service Temperature	115 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	0.4 / -	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.6 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	9700 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	150 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.4 / -	%	ISO 527-1/-2
Flexural modulus	9900 / -	MPa	ISO 178
Flexural strength	240 / -	MPa	ISO 178
Flexural strain at failure	2.75 / -	%	ISO 178
Charpy impact strength, 23 °C	56 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	8.7 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23 °C	8.9 / -	kJ/m ²	ISO 180/1A
Izod impact strength, 23 °C	45 / -	kJ/m ²	ISO 180/1U
Poisson's ratio	0.34 / - ^[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	245 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1 / *	%	Sim. to ISO 62
Water absorption, 2mm	3.9 / *	%	Sim. to ISO 62
Density	1580 / -	kg/m ³	ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.1 %

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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