



## FRIANYL® A3 GF25 V0XI BK 7021/A

**FRIANYL®** 

Car industry, Household appliances, Electrical devices.

			40.00			4.0
$\mathbf{P}$	$r \cap c$	אוור	t ın	ıt∩r	ma	tion

	. reader memation			
Resin Identification		PA66-GF25 FR(1	7)	ISO 1043
Part Marking Code		>PA66-GF25 FR(	•	ISO 11469
Continuous Service Temperature		115 <sup>°</sup>		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
	The second of th			,
	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/m²	ISO 179/1eU
	Charpy notched impact strength, 23°C	8.7/-	kJ/m²	ISO 179/1eA
	Izod notched impact strength, 23°C	8.9/-	kJ/m²	ISO 180/1A
	Izod impact strength, 23°C	45/-	kJ/m²	ISO 180/1U
	Poisson's ratio	0.34/- <sup>[C]</sup>	110/111	100 100/10
	[C]: Calculated	0.0 17		
	[O]. 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
		_007		
	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/m³	ISO 1183
			<b>3</b>	
	Injection			
	Drying Recommended	yes		
	Drying Temperature		°C	
	Drying Time, Dehumidified Dryer	2 - 4		
		_ '	0/	

Printed: 2025-05-29 Page: 1 of 2

≤0.1 %

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

**Processing Moisture Content** 





## FRIANYL® A3 GF25 V0XI BK 7021/A

## **FRIANYL®**

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

Printed: 2025-05-29 Page: 2 of 2

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

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any e

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.