



# FRIANYL® A3 W V0E BK 9011/O

### **FRIANYL®**

Designed for automotive applications requiring self-extinguishing properties combined with easy processability and good surface quality.

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Resin Identification Part Marking Code Continuous Service Temperature	(PA66+PA6) FF >(PA66+PA6) F 13		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number Moulding shrinkage, parallel Moulding shrinkage range, parallel Moulding shrinkage, normal Moulding shrinkage range, normal	120/* 1.2/- 1 - 1.4 1.2/- 1 - 1.4	cm <sup>3</sup> /g % % % %	ISO 307, 1628 ISO 294-4, 2577 ISO 294-4, 2577 ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at break, 50mm/min Charpy impact strength, 23°C Charpy notched impact strength, 23°C Poisson's ratio [C]: Calculated	3300/- 65/- 2.5/- 30/- 2.7/- 0.37/- <sup>[C]</sup>	MPa MPa % kJ/m² kJ/m²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU 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 Ball pressure test	260/* 80/* 190/* 175/-	°C °C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 IEC 60695-10-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn. Thickness tested UL recognition Burning Behav. at thickness h Thickness tested UL recognition Glow Wire Flammability Index, 0.75mm Glow Wire Flammability Index, 3.0mm FMVSS Class	V-0/* 1.5/* yes/* V-0/* 0.4/* yes/* 960/- SE	class mm class mm °C °C	IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-2-12 IEC 60695-2-12 IEC 60695-2-12
Electrical properties	dry/cond.		
Volume resistivity Comparative tracking index, 100 drops	1E12/- 600	Ohm.m	IEC 62631-3-1 IEC 60112

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Revised: 2025-03-25 Source: Celanese Materials Database





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#### Physical/Other properties

dry/cond.

#### 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

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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

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