

# FRIANYL® A3 W V0E BK 9011/O

## FRIANYL®

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

### Product information

Resin Identification	(PA66+PA6) FR(30)	ISO 1043
Part Marking Code	>(PA66+PA6) FR(30)<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Viscosity number	120 / *	cm <sup>3</sup> /g	ISO 307, 1628
Moulding shrinkage, parallel	1.2 / -	%	ISO 294-4, 2577
Moulding shrinkage range, parallel	1 - 1.4	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.2 / -	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1 - 1.4	%	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	3300 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	2.5 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	30 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23 °C	2.7 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.37 / - <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	260 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	80 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	190 / *	°C	ISO 75-1/-2
Ball pressure test	175 / -	°C	IEC 60695-10-2

### Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	yes / *		UL 94
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
FMVSS Class	SE		ISO 3795 (FMVSS 302)

### Electrical properties

	dry/cond.		
Volume resistivity	1E12 / -	Ohm.m	IEC 62631-3-1
Comparative tracking index, 100 drops	600		IEC 60112

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### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.4 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m <sup>3</sup>	ISO 1183

### 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