FRIANYL® A3 RV0 GN 6018/T

FRIANYL®

Designed for Electrical applications requiring self-extinguishing properties combined with easy processability and good surface quality, this grade meets the most stringent safety requirements for insulating materials.

Product information

Resin Identification	PA66 FR(30)		ISO 1043
Part Marking Code	>PA66 FR(30)<		ISO 11469
Continuous Service Temperature	266	°F	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	3880 / *	in³/lb	ISO 307, 1628
Molding shrinkage range, parallel	1.2 - 1.6	%	ISO 294-4, 2577
Molding shrinkage range, normal	1.2 - 1.6	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	500000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	12000 / -	psi	ISO 527-1/-2
Tensile strain at break, 50mm/min	10 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	>50 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	1.66 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	500 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	176 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	374 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.0098 / *	in	IEC 60695-11-10
UL recognition	yes / *		UL 94
Glow Wire Flammability Index, 0.75mm	1760 / -	°F	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	1760 / -	°F	IEC 60695-2-12
FMVSS Class	SE		ISO 3795 (FMVSS 302)

Electrical properties

	dry/cond.		
Comparative tracking index	600 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.2 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.6 / *	%	Sim. to ISO 62
Density	0.0419 / -	lb/in³	ISO 1183

Characteristics

Processing	Injection Molding
Additives	Flame retardant, Non-halogenated/Red phosphorus free flame retardant
Special characteristics	Flame retardant, Heat stabilized or stable to heat

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Revised: 2026-03-17 Source: Celanese Materials Database

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