

FRIANYL® A3 RV0 GN 6017/W

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+PA6) FR(30)	ISO 1043
Part Marking Code	>(PA66+PA6) FR(30)<	ISO 11469

Rheological properties

	dry/cond.		
Melt volume-flow rate	210/*	cm ³ /10min	ISO 1133
Temperature	275/*	°C	
Load	5/*	kg	
Viscosity number	140/*	cm ³ /g	ISO 307, 1628

Typical mechanical properties

	dry/cond.		
Tensile modulus	3500/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	80/-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	10/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	115/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4/-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.37/- ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3

Flammability

	dry/cond.		
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, 3.0mm	960/-	°C	IEC 60695-2-12
Glow Wire Ignition Temperature, 0.75mm	775/-	°C	IEC 60695-2-13

Electrical properties

Comparative tracking index, 100 drops	600		IEC 60112
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Physical/Other properties

	dry/cond.		
Density	1160/-	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 %
Melt Temperature Optimum	275 °C
Min. melt temperature	265 °C
Max. melt temperature	285 °C

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Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	60 °C
Max. mould temperature	90 °C

Characteristics

Processing	Injection Moulding
Additives	Flame retardant, Non-halogenated/Red phosphorous free flame retardant
Special characteristics	Flame retardant