

# FRIANYL® A3 RV0 BK 9005/JJ

## 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
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Viscosity number	140/*	cm <sup>3</sup> /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.2 - 1.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 - 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	75/-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	7.4/-	%	ISO 527-1/-2
Charpy notched impact strength, 23°C	3.3/-	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	2.5/-	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	85/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	185/*	°C	ISO 75-1/-2

### 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

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.2/*	%	Sim. to ISO 62
Water absorption, 2mm	6.5/*	%	Sim. to ISO 62
Density	1160/-	kg/m <sup>3</sup>	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
Delivery form	Granules
Additives	Flame retardant
Special characteristics	Flame retardant