



FRIANYL® A3 RV0 BG 1001/B

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.

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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 range, parallel Moulding shrinkage range, normal	140/* 1.2 - 1.6 1.2 - 1.6	cm³/g % %	ISO 307, 1628 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	3400/- 75/- 10/- >60/- 3/- 0.37/- ^[C]	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	260/* 85/* 185/*	°C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at thickness h Thickness tested UL recognition Glow Wire Flammability Index, 0.75mm Glow Wire Flammability Index, 3.0mm Glow Wire Ignition Temperature, 0.75mm Glow Wire Ignition Temperature, 0.4mm FMVSS Class	V-0/* 0.25/* yes/* 960/- 960/- 775/- 775/- SE	class mm °C °C °C °C	IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-2-12 IEC 60695-2-12 IEC 60695-2-13 IEC 60695-2-12 ISO 3795 (FMVSS 302)
Electrical properties			
Comparative tracking index, 100 drops	60	0	IEC 60112
Physical/Other properties Humidity absorption, 2mm Water absorption, 2mm	dry/cond. 2.1/* 7.6/* 1170/-	% % kg/m³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Density	11/0/-	kg/m³	130 1103

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Revised: 2025-05-15 Source: Celanese Materials Database





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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
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	70	°C
Min. mould temperature	60	°C
Max. mould temperature	90	°C
Ejection temperature	220	°C

Characteristics

Processing Injection Moulding

Delivery form Granules

Additives Flame retardant

Special characteristics Flame retardant, Heat stabilised or stable to heat

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