

FRIANYL[®] A3 RV0 BK 9005/F

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 Part Marking Code Continuous Service Temperature	PA66 >PA66< 130		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
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	3550/- 70/- 3/- 45/- 3/- 0.36/- ^[C]	MPa MPa % kJ/m ² kJ/m ²	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 °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn. Burning Behav. at thickness h Thickness tested Glow Wire Flammability Index, 0.75mm Glow Wire Flammability Index, 3.0mm	V-0/* V-0/* 0.4/* 960/- 960/-	class class mm °C °C	IEC 60695-11-10 IEC 60695-11-10 IEC 60695-11-10 IEC 60695-2-12 IEC 60695-2-12
Electrical properties			
Comparative tracking index, 100 drops	600		IEC 60112
Physical/Other properties	dry/cond.		
Density	1170/-	kg/m³	ISO 1183
Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature	yes 80 2 - 4 ≤0.1 275 265 285	% °C °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, Non-halogenated/Red phosphorous free flame retardant
Special characteristics	Flame retardant, Heat stabilised or stable to heat

Automotive

OEM VW Group STANDARD VW 50133

ADDITIONAL INFORMATION

*Best Fitting Grade To PA66-1-A, Not Officially Approved

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