

FRIANYL[®] A3 RV0 Z NC 1102

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	(PA66+PA6)-FR(30) >(PA66+PA6)-FR(30)<		ISO 1043 ISO 11469
Rheological properties	dry/cond.		
Viscosity number Moulding shrinkage, parallel Moulding shrinkage range, parallel Moulding shrinkage, normal Moulding shrinkage range, normal	125/* 1.2/- 1 - 1.4 1.2/- 1 - 1.4	cm ³ /g % % %	ISO 307, 1628 ISO 294-4, 2577 ISO 294-4, 2577 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	3400/1150 75/40 6/>50 >100/- 3/- 0.37/- ^[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/* 70/* 180/*	°C °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 FMVSS Class Hot Wire Ignition, 0.75mm Hot Wire Ignition, 1.5mm Hot Wire Ignition, 3mm	V-0/* 0.4/* yes/* 960/- 960/- SE PLC 4/* PLC 3/* PLC 1/*	class mm °C °C s s s s	IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-2-12 IEC 60695-2-12 ISO 3795 (FMVSS 302) UL 746A UL 746A UL 746A
Electrical properties	dry/cond.		
Volume resistivity Comparative tracking index, 100 drops	>1E13/- 600	Ohm.m	IEC 62631-3-1 IEC 60112





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Physical/Other properties	dry/cond.		
Humidity absorption, 2mm Water absorption, 2mm	2.2/* 7.9/*	%	Sim. to ISO 62 Sim. to ISO 62
Density	1160/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature	80	°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	≤0.1		
Melt Temperature Optimum	275	-	
Min. melt temperature Max. melt temperature	265 285		
Screw tangential speed	≥os ≤0.2		
Mold Temperature Optimum		°C	
Min. mould temperature		°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, High Flow		
A			

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 50133	*Best Fitting Grade To PA66-1-A, Not Officially
		Approved

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