



FRIANYL® A3 RV0 L 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 Continuous Service Temperature	PA66-FR(30) >PA66-FR(30)< 130 °C		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number Moulding shrinkage, parallel Moulding shrinkage range, parallel Moulding shrinkage, normal Moulding shrinkage range, normal	120/* 1.2/- 1 - 1.4 1.2/- 1 - 1.4	cm³/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	3600/1600 80/50 5/40 40/- 3/- 0.36/- ^[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 Ball pressure test	265/* 80/* 200/* 175/-	°C °C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 IEC 60695-10-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn. 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/* V-0/* 0.25/* yes/* 960/- 960/- SE PLC 4/* PLC 3/*	class class mm °C °C s s	IEC 60695-11-10 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

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Electrical properties

Volume resistivity>1E13/-Ohm.mIEC 62631-3-1Electric strength23/-kV/mmIEC 60243-1Comparative tracking index, 100 drops600IEC 60112

dry/cond.

dry/cond.

Physical/Other properties

Humidity absorption, 2mm 2/* % Sim. to ISO 62 Water absorption, 2mm 7.3/* % Sim. to ISO 62 Density 1160/- kg/m³ 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
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 STANDARD ADDITIONAL INFORMATION

VW Group VW 50133 *Best Fitting Grade To PA66-1-A, Not Officially

Approved

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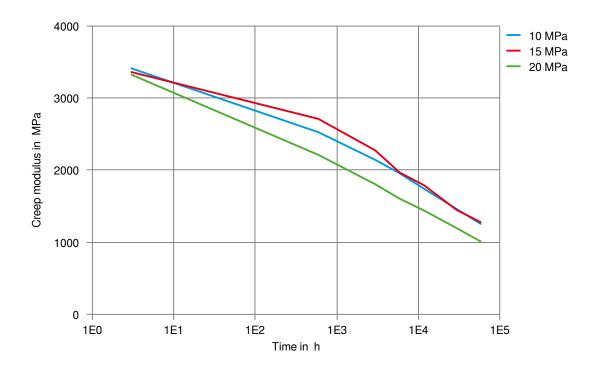




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Creep modulus-time 23°C



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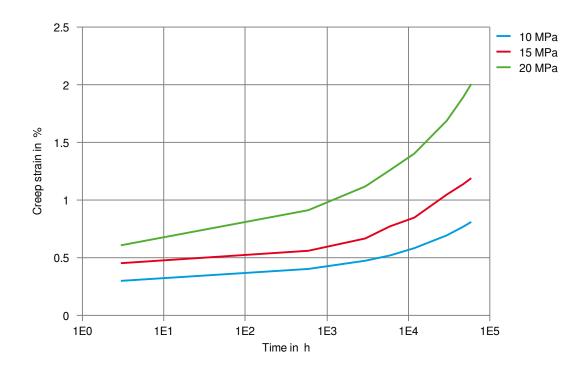
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Creep strain-time 23°C



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