Celanese
The chemistry inside innovation™

FRIANYL® A3 RV0 WT 9010/P

FRIANYL®

Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66 FR(30)		ISO 1043
Part Marking Code	>PA66 FR(30)<		ISO 11469
Continuous Service Temperature	130	°C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	135 / *	cm^3/g	ISO 307, 1628
Moulding shrinkage range, parallel	1.4 - 1.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.2 - 1.4	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3500 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	80 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	7 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	60 / -	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	3.5 / -	kJ/m^2	ISO 179/1eA
Ball indentation hardness, H 961/30	175 / -	MPa	ISO 2039-1
Poisson's ratio	0.37 / -[C]		

[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	0.25 / *	mm	IEC 60695-11-10
UL recognition	yes / *		UL 94
Glow Wire Flammability Index, 0.75mm	960 / -	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	960 / -	°C	IEC 60695-2-12
Glow Wire Ignition Temperature, 0.75mm	775 / -	°C	IEC 60695-2-13
Glow Wire Ignition Temperature, 3.0mm	775 / -	°C	IEC 60695-2-13

Electrical properties

	dry/cond.		
Volume resistivity	1E13 / -	Ohm.m	IEC 62631-3-1
Comparative tracking index	600 / -		IEC 60112

HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Celanese
The chemistry inside innovation™

FRIANYL® A3 RV0 WT 9010/P

FRIANYL®

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.5 / *	%	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
Ejection temperature	220	°C

Characteristics

Processing	Injection Moulding
Additives	Flame retardant
Special characteristics	Flame retardant