

FRIANYL® A3 RV0 WT 9010/P

Car industry, Household appliances, Electrical devices.

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	135/*	cm³/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/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.5/-	kJ/m²	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
	yes/*		UL 94
Glow Wire Flammability Index, 0.75mm	960/-	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm Glow Wire Ignition Temperature, 0.75mm	960/- 775/-	°C °C	IEC 60695-2-12 IEC 60695-2-13
Glow Wire Ignition Temperature, 0.75mm Glow Wire Ignition Temperature, 3.0mm	775/-	°C	IEC 60695-2-13
Clow Wire ignition remperature, 3.0mm	1157-	U	IEC 00095-2-15
Electrical properties	dry/cond.		
Volume resistivity	1E13/-	Ohm.m	IEC 62631-3-1
Comparative tracking index	600/-		IEC 60112





Sim. to ISO 62 Sim. to ISO 62 ISO 1183

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Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	
Water absorption, 2mm	6.5/*	%	
Density	1160/-	kg/m³	
Injection			
Drying Recommended	ye	S	
Drying Temperature	80 °C		
Drying Time, Dehumidified Dryer	2 - 4	4 h	
Processing Moisture Content	≤0.	1 %	
Melt Temperature Optimum	27	5 °C	
Min. melt temperature	26	5 °C	
Max. melt temperature	28	5 °C	
Screw tangential speed	≤0.2	2 m/s	
Mold Temperature Optimum	70	O°C	
Min. mould temperature	60 °C		
Max. mould temperature	90 °C		
Ejection temperature	22	O °C	

Characteristics

Processing	Injection Moulding
Additives	Flame retardant
Special characteristics	Flame retardant

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