

FRIANYL® A3 H S30 V0XI NC 1101/A

FRIANYL®

Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-MD30 FR(17)	ISO 1043
Part Marking Code	>PA66-MD30 FR(17)<	ISO 11469
Continuous Service Temperature	125 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.4 - 0.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 0.8 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	6100/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	65/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	4/-	%	ISO 527-1/-2
Flexural modulus	5500/-	MPa	ISO 178
Flexural strength	80/-	MPa	ISO 178
Charpy impact strength, 23°C	17/-	kJ/m ²	ISO 179/1eU
Izod notched impact strength, 23°C	2.5/-	kJ/m ²	ISO 180/1A
Poisson's ratio	0.35/- ^[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	210/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	220/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0/*	class	IEC 60695-11-10
Burning Behav. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.8/*	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

Electrical properties

	dry/cond.		
Comparative tracking index	500/-		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.4/*	%	Sim. to ISO 62
Water absorption, 2mm	4.4/*	%	Sim. to ISO 62
Density	1540/-	kg/m ³	ISO 1183

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Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.1 %
Melt Temperature Optimum	280 °C
Min. melt temperature	265 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	70 °C
Max. mould temperature	90 °C

Characteristics

Processing	Injection Moulding
Additives	Flame retardant, Mineral Filler
Special characteristics	Flame retardant, Heat stabilised or stable to heat, Low Warpage