Celanese
The chemistry inside innovation™

FRIANYL® B3 NH V2 NC 1102

FRIANYL®

This compound is primarily designed for the Electrical and Electronic industry but suitable for Automotive or Industrial & Consumer applications. Available in a wide range of colors.

Product information

Resin Identification	PA6		ISO 1043
Part Marking Code	>PA6<		ISO 11469
Continuous Service Temperature	120	°C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	1.6 - 2	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.6 - 2	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3100 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	80 / -	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4.5 / -	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	10 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	40 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	4 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	3.5 / -	kJ/m²	ISO 180/1A
Poisson's ratio	0.37 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	65 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	yes / *		UL 94
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	yes / *		UL 94

Electrical properties

	dry/cond.	
Comparative tracking index	600 / -	IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.5 / *	%	Sim. to ISO 62
Water absorption, 2mm	9 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m³	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	245	°C
Min. melt temperature	235	°C
Max. melt temperature	260	°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	Nucleated, Non-halogenated/Red phosphorous free flame retardant
Special characteristics	Flame retardant, Heat stabilised or stable to heat, High Flow