

FRIANYL® B3 V0 BK 9005/O

FRIANYL®

Designed for any electrical application that require self-extinguishing properties, excellent surface quality and flexibility of use.

Product information

Resin Identification	PA6-FR(30)	ISO 1043
Part Marking Code	>PA6-FR(30)<	ISO 11469
Continuous Service Temperature	125 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	1.1 - 1.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.1 - 1.5 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3400 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	75 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	3 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	40 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	3 / -	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.37 / - ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	225 / *	°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 thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	yes / *		UL 94
Glow Wire Flammability Index, 0.75mm	960 / -	°C	IEC 60695-2-12
FMVSS Class	SE		ISO 3795 (FMVSS 302)

Electrical properties

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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.3 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.8 / *	%	Sim. to ISO 62
Density	1160 / -	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	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	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 50134	*Best Fitting Grade To PA6-1-A, Not Officially Approved