

FRIANYL® B3 V2 BK 9005/L

FRIANYL®

Designed to deliver the best performance in electrical applications like installation equipments accessories, cable glands and similar components.

Product information

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

Rheological properties

	dry/cond.		
Viscosity number	145/*	cm ³ /g	ISO 307, 1628
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	3400/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	80/-	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	65/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	170/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	V-2/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94
FMVSS Class	SE		ISO 3795 (FMVSS 302)

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.5/*	%	Sim. to ISO 62
Water absorption, 2mm	8.6/*	%	Sim. to ISO 62
Density	1160/-	kg/m ³	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	245 °C
Min. melt temperature	235 °C
Max. melt temperature	260 °C

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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	Non-halogenated/Red phosphorous free flame retardant
Special characteristics	Flame retardant, Heat stabilised or stable to heat