



ISO 1043

FRIANYL® A3 V2 A

FRIANYL®

Suitable for any field of application, this grade offers good mechanical performance, high productivity, easy processability for an aesthetically brilliant result.

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Resin Identification

		°C	IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number Moulding shrinkage range, parallel Moulding shrinkage range, normal	140/* 1.5 - 1.9 1.5 - 1.9	cm³/g % %	ISO 307, 1628 ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at break, 50mm/min Charpy impact strength, 23°C Charpy notched impact strength, 23°C Ball indentation hardness, H 961/30 Poisson's ratio [C]: Calculated	3250/- 85/- 5/- >50/- 3/- 145/- 0.37/- ^[C]	MPa MPa % kJ/m² kJ/m² MPa	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU ISO 179/1eA ISO 2039-1
Thermal properties	dry/cond.		
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa	265/* 85/* 205/*	°C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-2/*	class	IEC 60695-11-10
Electrical properties	dry/cond.		
Comparative tracking index	600/-		IEC 60112
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm Water absorption, 2mm Density	2.4/* 8.5/* 1130/-	% % kg/m³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection			
Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content	yes 80 2 - 4 ≤0.1	°C h	

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280 °C

270 °C

Revised: 2024-08-16 Source: Celanese Materials Database

Melt Temperature Optimum

Min. melt temperature





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Max. melt temperature	290	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	80	°C
Min. mould temperature	60	°C
Max. mould temperature	90	°C

Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat

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Revised: 2024-08-16 Source: Celanese Materials Database

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