

TECHNICAL DATA SHEET

TECHNYL Z3D NC (Previously THERMEC ZED S01)

PPS, impact modified, for monofilament extrusion

General

Feature	Impact modified
Polymer type	PPS (Polyphenylene sulfide)
Processing technology	Monofilament extrusion
Certification	RoHS

	Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.27
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Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	2500 / -
Stress at break	50 mm/min	ISO 527-1/-2	MPa	60 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	10 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	NB / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	42 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	280
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	115
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	105

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+012
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Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		V0
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Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products.
*: conditioned according to ISO 1110

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Processing conditions

Drying temperature/time	130-150 °C / 2-6h
Recommended melt temperature	310 - 340 °C
Recommended mould temperature	140 - 170 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.