


**Technyl® A 221 Natural FA**

PA66

Solvay Engineering Plastics

**Product Texts**
Unreinforced polyamide 66, medium viscosity, for injection moulding, with a special crystallizing agent, for fast cycles.

Suitable for food contact applications

TECHNYL® A 221 NATURAL FA offers a good combination between primary properties of the unreinforced polyamide 66 and processing properties leading to increased productivity. These performances are associated with excellent dimensional stability and great rigidity of moulded parts. This grade is used in a wide variety of industries.

- Automotive: connectors
- Electrical: connectors, rotary switches
- Consumer goods: lighters, aerosol valves.

This product is available in natural.

Mechanical properties	dry / cond	Unit	Test Standard
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**ISO Data**

Tensile Modulus	3200 / -	MPa	ISO 527-1/-2
Stress at break	95 / -	MPa	ISO 527-1/-2
Strain at break	20 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	2.5 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	2 / -	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
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**ISO Data**

Melting temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	80 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, normal	65 / *	E-6/K	ISO 11359-1/-2

Other properties	dry / cond	Unit	Test Standard
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**ISO Data**

Water absorption	1.1 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m <sup>3</sup>	ISO 1183

Test specimen production	Value	Unit	Test Standard
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**ISO Data**

Injection Molding, mold temperature	80	°C	ISO 10724
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**Characteristics**
**Processing**

Injection Molding

**Other text information**
**Injection Molding**
The material is supplied in single bags, ready for use. In the case that the origin material has absorbed moisture, it must be dried to a final moisture content of less than 0.2% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions:

Barrel temperatures:

- feed zone 250 - 270°C
- compression zone 260 - 280°C
- front zone 270 - 290°C

Mould temperatures: 60 at 80°C