

**Technyl® A 402 Natural FA**

PA66

Solvay Engineering Plastics

Product Texts

Unreinforced polyamide PA66, very high viscosity, for extrusion.

TECHNYL® A 402 NATURAL FA offers three main advantages: high impact resistance at low humidity levels, good rigidity, and excellent compression resistance.

This grade is particularly suitable for the moulding of plastic insulators for railway binding and for extrusion of plates and profiles.

Suitable for food contact applications (films, packaging, ...).

This product is available in natural.

Mechanical properties**ISO Data**

	dry / cond	Unit	Test Standard
Tensile Modulus	3100 / 1300	MPa	ISO 527-1/-2
Yield stress	80 / 60	MPa	ISO 527-1/-2
Yield strain	8 / 30	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 30	kJ/m ²	ISO 179/1eA

Thermal properties**ISO Data**

	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2
Oxygen index	27 / *	%	ISO 4589-1/-2

Electrical properties**ISO Data**

	dry / cond	Unit	Test Standard
Dissipation factor, 1MHz	200 / 1000	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E12	Ohm	IEC 60093
Electric strength	27 / 26	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112

Other properties**ISO Data**

	dry / cond	Unit	Test Standard
Water absorption	1.5 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m ³	ISO 1183

Material specific properties**ISO Data**

	dry / cond	Unit	Test Standard
Viscosity number	438 / *	cm ³ /g	ISO 307, 1157, 1628

Characteristics**Processing**

Profile Extrusion, Other Extrusion

Other text information**Injection Molding**

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,1% with a dehumidified air drying equipment at approx 80°C.

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Recommended extrusion conditions :

Barrel temperatures :

- feed zone 240 - 250°C
- compression zone 240 - 260°C
- front zone 240 - 260°C

Draw - plate temperatures : 260 at 270°C

Other extrusion

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,1% with a dehumidified air drying equipment at approx 80°C.

Recommended extrusion conditions :

Barrel temperatures :

- feed zone 240 - 250°C
- compression zone 240 - 260 °C
- front zone 240 - 260°C

Draw - plate temperatures : 260 at 270°C

Profile extrusion

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,1% with a dehumidified air drying equipment at approx 80°C.

Recommended extrusion conditions :

Barrel temperatures :

- feed zone 240 - 250°C
- compression zone 240 - 260 °C
- front zone 240 - 260°C

Draw - plate temperatures : 260 at 270°C