PA46

Stanyl® TF 300

DSM (now Envalior)

Position #118 · Jinsutong Reference Catalog 2026

Resin Overview

PA46 · Unreinforced, Heat Stabilized. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	DSM (now Envalior)
Category	PA46 · Unreinforced, Heat Stabilized
Typical Use	Unreinforced gears, sliding parts, automotive

Key Properties

Density	1.18 g/cm³
MVR (275°C/5 kg)	20 cm³/10min
Melting Point (DSC)	295 °C
Tensile Strength at Yield	100 MPa
Tensile Modulus	3500 MPa
Elongation at Break	25%
Notched Izod Impact (23°C)	9 kJ/m²
HDT (1.8 MPa)	170 °C

Key Features

- Unreinforced PA46 with high impact
- Heat stabilized for continuous use
- High wear resistance
- Good for precision gears and slides

Processing Conditions

Melt Temperature	290-320 °C
Mold Temperature	80-120 °C
Drying	4 h @ 80 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- Precision gears
- Bearings and bushings
- Sliding elements
- Under-hood automotive

Regulatory & Compliance

- RoHS compliant
- REACH registered

> ⚠ All data sourced from public manufacturer catalogs.

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