PA46

Stanyl® TF 300HF

DSM (now Envalior)

Position #113 · Jinsutong Reference Catalog 2026

Resin Overview

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

This Grade

Manufacturer	DSM (now Envalior)
Category	PA46 · Heat Stabilized, Unreinforced
Typical Use	High-temp gears, fasteners

Key Properties

Density	1.18 g/cm³
MVR (275°C/5 kg)	25 cm³/10min
Melting Point (DSC)	295 °C
Tensile Strength at Yield	105 MPa
Tensile Modulus	3500 MPa
Elongation at Break	25%
Notched Izod Impact (23°C)	10 kJ/m²
HDT (1.8 MPa)	175 °C

Key Features

- Heat stabilized for continuous use
- High impact strength
- Good wear resistance
- Suitable for high-temp gears and fasteners

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

- High-temp precision gears
- Snap-fit fasteners
- Automotive fasteners
- Industrial sliding parts

Regulatory & Compliance

- RoHS compliant
- REACH registered

> ⚠ All data sourced from public manufacturer catalogs.

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