PA46

Stanyl® TW271F6

DSM (now Envalior)

Position #120 · Jinsutong Reference Catalog 2026

Resin Overview

PA46 · 30% Glass, Heat Stable, Black. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	DSM (now Envalior)
Category	PA46 · 30% Glass, Heat Stable, Black
Typical Use	High-temp automotive black, SMT reflow

Key Properties

Density	1.41 g/cm³
MVR (275°C/5 kg)	12 cm³/10min
Melting Point (DSC)	295 °C
Tensile Strength at Break	170 MPa
Tensile Modulus	10500 MPa
Elongation at Break	2.8%
HDT (1.8 MPa)	285 °C
Color	Black

Key Features

- 30% glass for high stiffness
- Black pre-compounded for automotive
- High heat 170°C continuous
- Suitable for SMT reflow

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 automotive brackets
- SMT power connectors
- Industrial sensors
- High-current electrical

Regulatory & Compliance

- RoHS compliant
- REACH registered

> ⚠ All data sourced from public manufacturer catalogs.

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