PEI

Ultem® DTF1122

SABIC

Position #117 · Jinsutong Reference Catalog 2026

Resin Overview

PEI · Fiber-Reinforced, High Stiffness. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	SABIC
Category	PEI · Fiber-Reinforced, High Stiffness
Typical Use	High-stiffness structural, aerospace

Key Properties

Density	1.51 g/cm³
MVR (360°C/5 kg)	8 cm³/10min
Tensile Strength at Yield	160 MPa
Tensile Modulus	11000 MPa
Elongation at Break	2%
HDT (1.8 MPa)	210 °C
Tg (DMA)	220 °C
Continuous Use Temperature	180 °C

Key Features

- Fiber-reinforced for very high stiffness
- High Tg (220°C) for high-temp use
- Good for metal replacement in structural parts
- Aerospace-grade traceability

Processing Conditions

Melt Temperature	360-390 °C
Mold Temperature	150-180 °C
Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- Aerospace structural parts
- High-stiffness medical device frames
- Semiconductor process components
- Metal replacement in industrial machinery

Regulatory & Compliance

- UL 94 V-0
- RoHS compliant
- Aerospace-grade certifications

> ⚠ All data sourced from public manufacturer catalogs.

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