PEI

Ultem® 1000F Natural

SABIC

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Resin Overview

PEI · Natural, Unreinforced. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	SABIC
Category	PEI · Natural, Unreinforced
Typical Use	Medical, semiconductor, transparent high-temp

Key Properties

Density	1.27 g/cm³
MVR (360°C/5 kg)	18 cm³/10min
Tensile Strength at Yield	105 MPa
Tensile Modulus	3000 MPa
Elongation at Break	60%
HDT (1.8 MPa)	200 °C
Light Transmittance (2mm)	87%
Color	Amber (natural)

Key Features

- Natural amber color (transparent)
- High Tg (217°C) for high-temp use
- Suitable for medical and semiconductor
- Inherent flame retardancy

Processing Conditions

Melt Temperature	340-370 °C
Mold Temperature	140-180 °C
Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- Medical transparent components
- Semiconductor wafer carriers
- High-temp fluid handling
- Aerospace transparent parts

Regulatory & Compliance

- USP Class VI
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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