PEI

Ultem® HP-7000

SABIC

Position #104 · Jinsutong Reference Catalog 2026

Resin Overview

PEI · Healthcare, Autoclavable. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	SABIC
Category	PEI · Healthcare, Autoclavable
Typical Use	High-heat medical, surgical instruments

Key Properties

Density	1.27 g/cm³
MVR (360°C/5 kg)	12 cm³/10min
Tensile Strength at Yield	105 MPa
Tensile Modulus	3000 MPa
Elongation at Break	60%
HDT (1.8 MPa)	200 °C
Tg (DMA)	217 °C
Sterilization Cycles	1000+ autoclave cycles

Key Features

- USP Class VI certified
- Autoclavable for 1000+ cycles
- High Tg (217°C) for high-heat use
- SABIC quality

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

- Reusable medical devices
- Surgical instrument handles
- Sterilization trays
- Dental instrument components

Regulatory & Compliance

- USP Class VI
- ISO 10993
- FDA 21 CFR 177.1595

> ⚠ All data sourced from public manufacturer catalogs.

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