PEI

Ultem® DTM1122 Natural

SABIC

Position #105 · Jinsutong Reference Catalog 2026

Resin Overview

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

This Grade

Manufacturer	SABIC
Category	PEI · Healthcare, Natural, Autoclavable
Typical Use	Medical transparent parts, autoclavable

Key Properties

Density	1.27 g/cm³
MVR (360°C/5 kg)	14 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)
- USP Class VI certified
- Autoclavable for 1000+ cycles
- Suitable for medical transparent parts

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
- Diagnostic device parts
- Surgical instrument windows
- Sterilization trays

Regulatory & Compliance

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

> ⚠ All data sourced from public manufacturer catalogs.

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