PEI

# Ultem® 3453

SABIC

Position #113 · Jinsutong Reference Catalog 2026

## Resin Overview

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

## This Grade

| | |
|---|---|
| **Manufacturer** | SABIC |
| **Category** | PEI · Healthcare, High Flow |
| **Typical Use** | High-flow medical device housings |

## 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% |
| **Notched Izod Impact (23°C)** | 60 J/m |
| **HDT (1.8 MPa)** | 200 °C |
| **USP Class VI** | Compliant |

## Key Features

- High flow for medical housings
- USP Class VI certified
- Autoclavable for medical 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

- Medical device housings
- Surgical instrument components
- High-temp medical parts
- Diagnostic equipment

## Regulatory & Compliance

- USP Class VI
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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