PEI

# Ultem® 3453 Black

SABIC

Position #106 · Jinsutong Reference Catalog 2026

## Resin Overview

PEI · 45% Glass, Black, High Modulus. Sourced from public manufacturer technical data sheets.

## This Grade

| | |
|---|---|
| **Manufacturer** | SABIC |
| **Category** | PEI · 45% Glass, Black, High Modulus |
| **Typical Use** | High-modulus structural, aerospace, black |

## Key Properties

| | |
|---|---|
| **Density** | 1.61 g/cm³ |
| **MVR (360°C/5 kg)** | 8 cm³/10min |
| **Tensile Strength at Break** | 195 MPa |
| **Tensile Modulus** | 14000 MPa |
| **Elongation at Break** | 1.8% |
| **HDT (1.8 MPa)** | 212 °C |
| **Flexural Modulus** | 13500 MPa |
| **Color** | Black |

## Key Features

- 45% glass for very high stiffness
- Black pre-compounded
- High Tg (217°C) for high-heat use
- Good for metal replacement

## Processing Conditions

| | |
|---|---|
| **Melt Temperature** | 350-380 °C |
| **Mold Temperature** | 150-180 °C |
| **Drying** | 4 h @ 150 °C in desiccant dryer |
| **Processing Methods** | Injection molding |

## Typical Applications

- High-modulus structural parts
- Aerospace brackets
- Black high-temp housings
- Metal replacement

## Regulatory & Compliance

- UL 94 V-0
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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