PEI

Ultem® 3452 Black

SABIC

Position #117 • 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	45% glass for high-stiffness structural

Key Properties

Density	1.61 g/cm³
MVR (360°C/5 kg)	9 cm³/10min
Tensile Strength at Break	200 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
- SABIC quality

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
- Black high-temp automotive
- Aerospace brackets
- Premium IT structural

Regulatory & Compliance

- UL 94 V-0
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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