PBT

# Valox® 4520 Black

SABIC

Position #108 • Jinsutong Reference Catalog 2026

## Resin Overview

PBT · 15% Glass, Black, FR. Sourced from public manufacturer technical data sheets.

## This Grade

| | |
|---|---|
| **Manufacturer** | SABIC |
| **Category** | PBT · 15% Glass, Black, FR |
| **Typical Use** | FR black PBT for electrical, automotive |

## Key Properties

| | |
|---|---|
| **Density** | 1.45 g/cm³ |
| **MVR (250°C/2.16 kg)** | 15 cm³/10min |
| **Tensile Strength at Break** | 95 MPa |
| **Tensile Modulus** | 5500 MPa |
| **HDT (1.8 MPa)** | 200 °C |
| **Color** | Black |
| **UL 94 Rating** | V-0 @ 0.75mm |
| **Continuous Use Temperature** | 140 °C |

## Key Features

- 15% glass for moderate stiffness
- Black FR (V-0) for electrical
- High heat 140°C
- SABIC quality

## Processing Conditions

| | |
|---|---|
| **Melt Temperature** | 250-270 °C |

| | |
|---|---|
| **Mold Temperature** | 60-100 °C |
| **Drying** | 4 h @ 120 °C in desiccant dryer |
| **Processing Methods** | Injection molding |

## Typical Applications

- FR electrical components
- Automotive sensor housings
- Power tool housings
- IT equipment parts

## Regulatory & Compliance

- UL 94 V-0 listed
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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