PPS

Ryton® BR42F

Syensqo

Position #118 · Jinsutong Reference Catalog 2026

Resin Overview

PPS · 40% Glass, Black, High Modulus. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	Syensqo
Category	PPS · 40% Glass, Black, High Modulus
Typical Use	High-modulus structural, automotive

Key Properties

Density	1.65 g/cm³
Tensile Strength at Break	170 MPa
Tensile Modulus	14000 MPa
Elongation at Break	1.8%
HDT (1.8 MPa)	265 °C
Color	Black
Continuous Use Temperature	200 °C
UL 94 Rating	V-0 @ 0.75mm

Key Features

- 40% glass fiber for very high modulus
- High heat 200°C continuous
- Low warpage, good dimensional stability
- UL 94 V-0 flame retardant

Processing Conditions

Melt Temperature	310-330 °C
Mold Temperature	130-160 °C
Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- High-modulus structural parts
- Automotive under-hood
- EV battery module components
- Industrial connectors

Regulatory & Compliance

- UL 94 V-0 listed
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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