COC

TOPAS® 7010L-04

TOPAS Advanced Polymers

Position #117 · Jinsutong Reference Catalog 2026

Resin Overview

COC · High Tg, Injection. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	TOPAS Advanced Polymers
Category	COC · High Tg, Injection
Typical Use	High-temp optical, medical

Key Properties

Density	1.02 g/cm³
MFR (260°C/2.16 kg)	10 g/10min
Tg (DSC)	170 °C
Tensile Strength at Yield	65 MPa
Tensile Modulus	2700 MPa
Elongation at Break	3.5%
Light Transmittance (2mm)	91%
Refractive Index	1.53

Key Features

- Very high Tg (170°C) for high-temp use
- High clarity for optical use
- USP Class VI certified
- FDA food contact compliant

Processing Conditions

Melt Temperature	300-340 °C
Mold Temperature	140-180 °C
Drying	4 h @ 100 °C
Processing Methods	Injection molding

Typical Applications

- High-temp optical components
- Medical device parts
- Diagnostic device components
- Pharmaceutical packaging

Regulatory & Compliance

- USP Class VI
- FDA 21 CFR 182.99
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

Contact
Mr. Mo Hailong (莫海龙) — Business Manager · +86 138 1603 7020 · 13816037020@139.com
Shanghai Jinsutong Plastics Co., Ltd. · 1st Building, 5601 Yanqian Road, Fengxian District, Shanghai

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