COC

TOPAS® 6013F-04

TOPAS Advanced Polymers

Position #115 · Jinsutong Reference Catalog 2026

Resin Overview

COC · General, Optical. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	TOPAS Advanced Polymers
Category	COC · General, Optical
Typical Use	General optical, lenses, packaging

Key Properties

Density	1.02 g/cm³
MFR (260°C/2.16 kg)	13 g/10min
Tg (DSC)	130 °C
Tensile Strength at Yield	64 MPa
Tensile Modulus	2600 MPa
Light Transmittance (2mm)	92%
Refractive Index	1.53
HDT (0.45 MPa)	127 °C

Key Features

- General purpose COC
- High clarity for optical use
- High Tg (130°C) for high-temp
- FDA and EU food contact compliant

Processing Conditions

Melt Temperature	270-310 °C
Mold Temperature	120-150 °C
Drying	4 h @ 100 °C
Processing Methods	Injection molding

Typical Applications

- Optical lens elements
- Pharmaceutical packaging
- Diagnostic device housings
- General packaging

Regulatory & Compliance

- FDA 21 CFR 182.99
- EU 10/2011
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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