PEI

Ultem® XTCator 1010

SABIC

Position #116 · Jinsutong Reference Catalog 2026

Resin Overview

PEI · Dielectric, High-temp. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	SABIC
Category	PEI · Dielectric, High-temp
Typical Use	High-frequency RF components, connectors

Key Properties

Density	1.27 g/cm³
MVR (360°C/5 kg)	14 cm³/10min
Tensile Strength at Yield	105 MPa
Tensile Modulus	3000 MPa
Dk (1 GHz)	2.9
Df (1 GHz)	0.0045
Dielectric Strength	35 kV/mm
HDT (1.8 MPa)	200 °C

Key Features

- Very low Df (0.0045) for RF use
- High Tg (217°C) for lead-free reflow
- Suitable for high-frequency connectors
- SABIC quality

Processing Conditions

Melt Temperature	340-370 °C
Mold Temperature	140-180 °C
Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- High-frequency RF components
- 5G mmWave components
- High-speed data connectors
- RF antennas and housings

Regulatory & Compliance

- UL 94 V-0
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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