

**OLA Product Name: OLA 8200**

**Color: Beige (Pantone 13-0907 TCX)**

**Process: SLA**

## MATERIAL SUMMARY

**Tolerance:**  $\pm 200\mu\text{m}$  or  $\pm 0.2\%$

**Lead Time:** 24 Hours

**Maximum Printing Size:** 1600mm  $\times$  750mm  $\times$  600mm

**Notes:**



## EVALUATION

### Advantages:

- ✓ Superior surface finish ( $Ra < 1\mu\text{m}$ )
- ✓ Excellent toughness
- ✓ Wide post-processing compatibility

### Limitations:

- ※ 15% higher shrinkage compared to OLA 8000
- ※ Recommended for applications with  $\pm 0.3\text{mm}$  tolerance requirements

## KEY FEATURES

As our most popular economy-grade material, OLA 8200 resin delivers outstanding surface finish and remarkable toughness, making it ideal for cost-sensitive rapid prototyping and pre-production verification.

## MATERIAL PROPERTIES

**Tensile Modulus:** 2589–2695 MPa

**Tensile Strength:** 38–56 MPa

**Poisson's Ratio:** 0.4–0.44

**Notched Impact:** 35–55 J/m

**Tg:** 40–57°C

**CTE:** 90–103  $\times 10^{-6}/^{\circ}\text{C}$

**Density:** 1.12–1.18 g/cm<sup>3</sup>

**Dielectric Constant:** 4.2–5.0 (60Hz), 3.3–4.2 (1kHz), 3.2–4.0 (1MHz)

**Dielectric Strength:** 12.8–16.1 kV/mm

**HDT:** 39–52°C

**Elongation:** 12–20%

**Hardness:** 76–88 Shore D

**Flexural Modulus:** 2692–2775 MPa

**Flexural Strength:** 69–74 MPa

## APPLICATION SCENARIOS

- Home appliances (ACs, purifiers, vacuums)
- Automotive (dashboards, trims, mirrors)
- Electronics (smartphones, tablets, cameras)
- Industrial (tools, control panels, meters)
- Medical/Education (anatomical models, teaching aids)

## POST-PROCESSING OPTIONS

- Painting
- Thread tapping
- Polishing