

Components of ESTELITE OMEGA

1. Filler

- Supra-Nano Spherical Filler (200nm $\text{SiO}_2\text{-ZrO}_2$)
- Composite filler (include 200nm spherical $\text{SiO}_2\text{-ZrO}_2$)
- Filler loading : 82 wt% (Trans : 78 wt%)

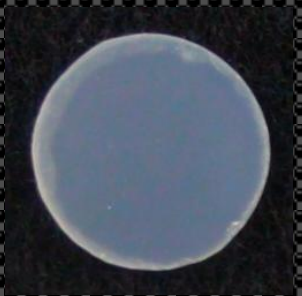
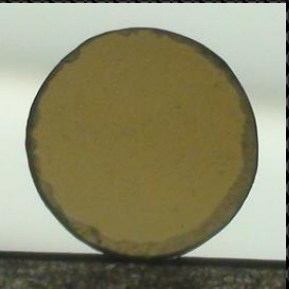


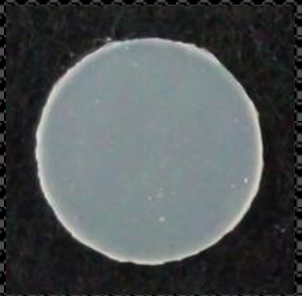

2. Photo Initiator

- Radical Amplified Photo-Polymerization Initiator System
(Trans : CQ / Amine)




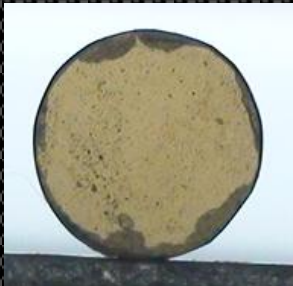
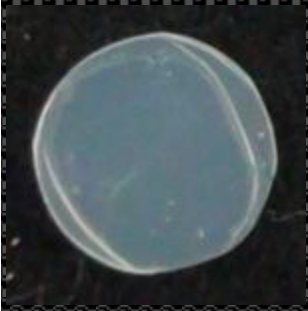
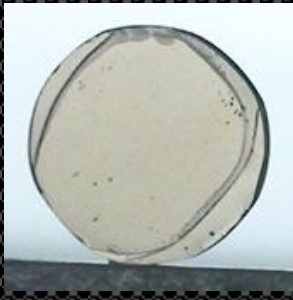
3. Monomer

- Bis-GMA / TEGDMA

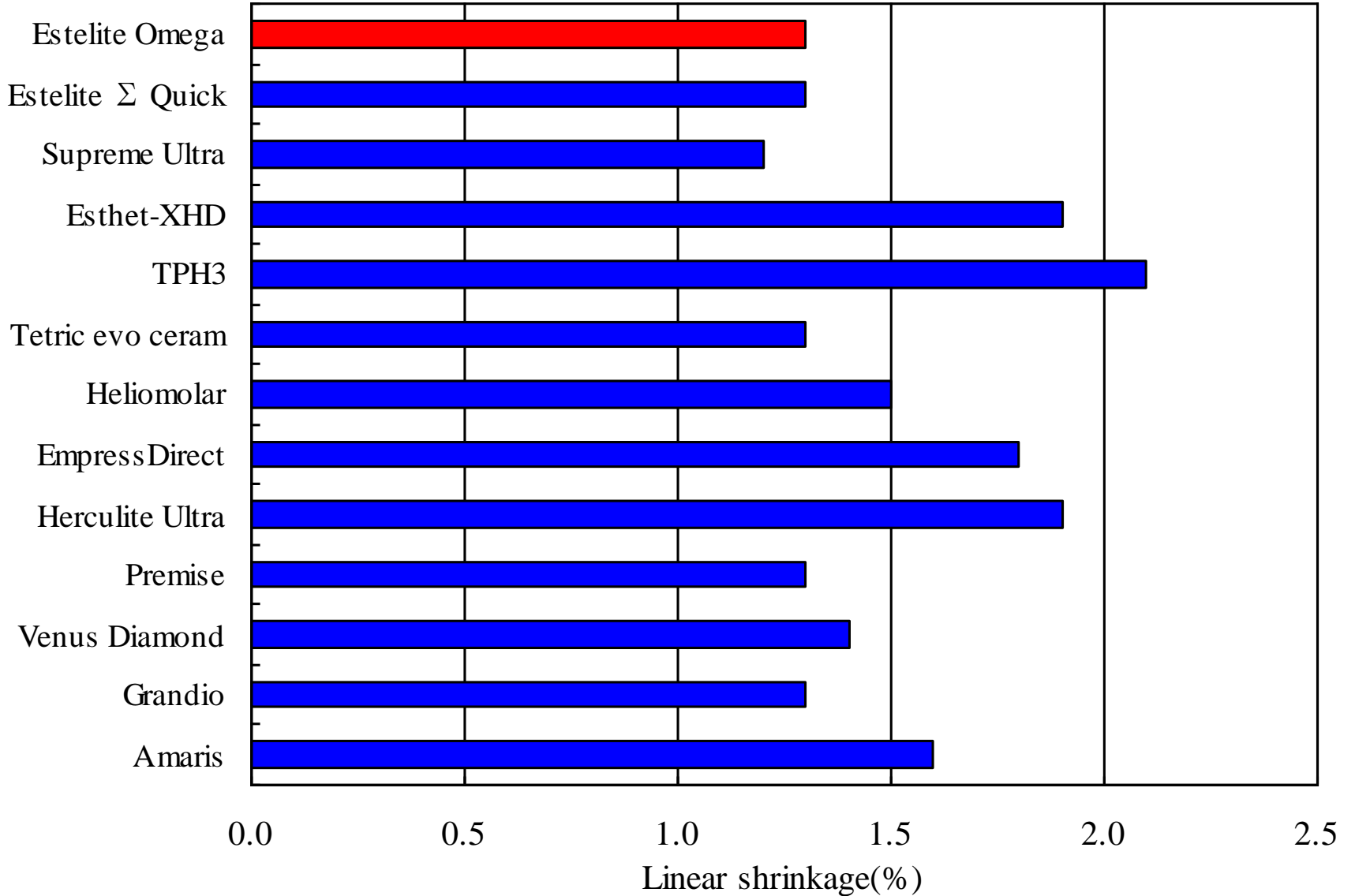
Trans shade

	Translucency (Y _b /Y _w)	Opalescence (ΔC*)	Under reflected light (Blue)	Under transmitted light (Orange)	Radiopacity
ESTELITE OMEGA Trans	0.111	28.9			YES
Vit-l-escence Ir B	0.123	28.8			NO
Supreme Plus GT	0.128	22.4			NO

Trans shade

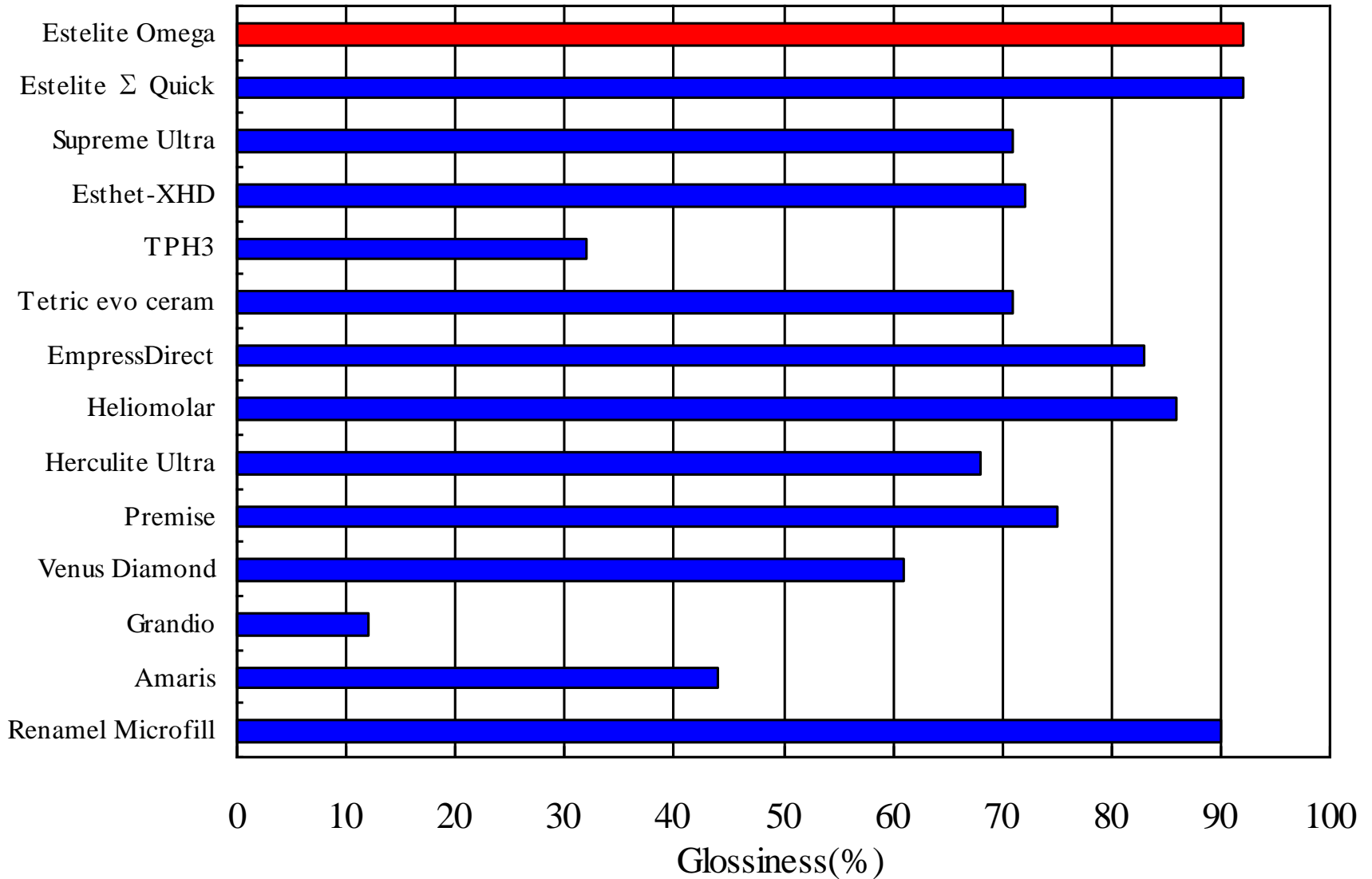
	Translucency (Yb/Yw)	Opalescence (ΔC^*)	Under reflected light (Blue)	Under transmitted light (Orange)	Radiopacity
Supreme Ultra CT	0.159	28.5			YES
Empress Direct Opal Trans	0.218	25.9			?
Premise Super Clear	0.087	26.7			?

Polymerization Shrinkage



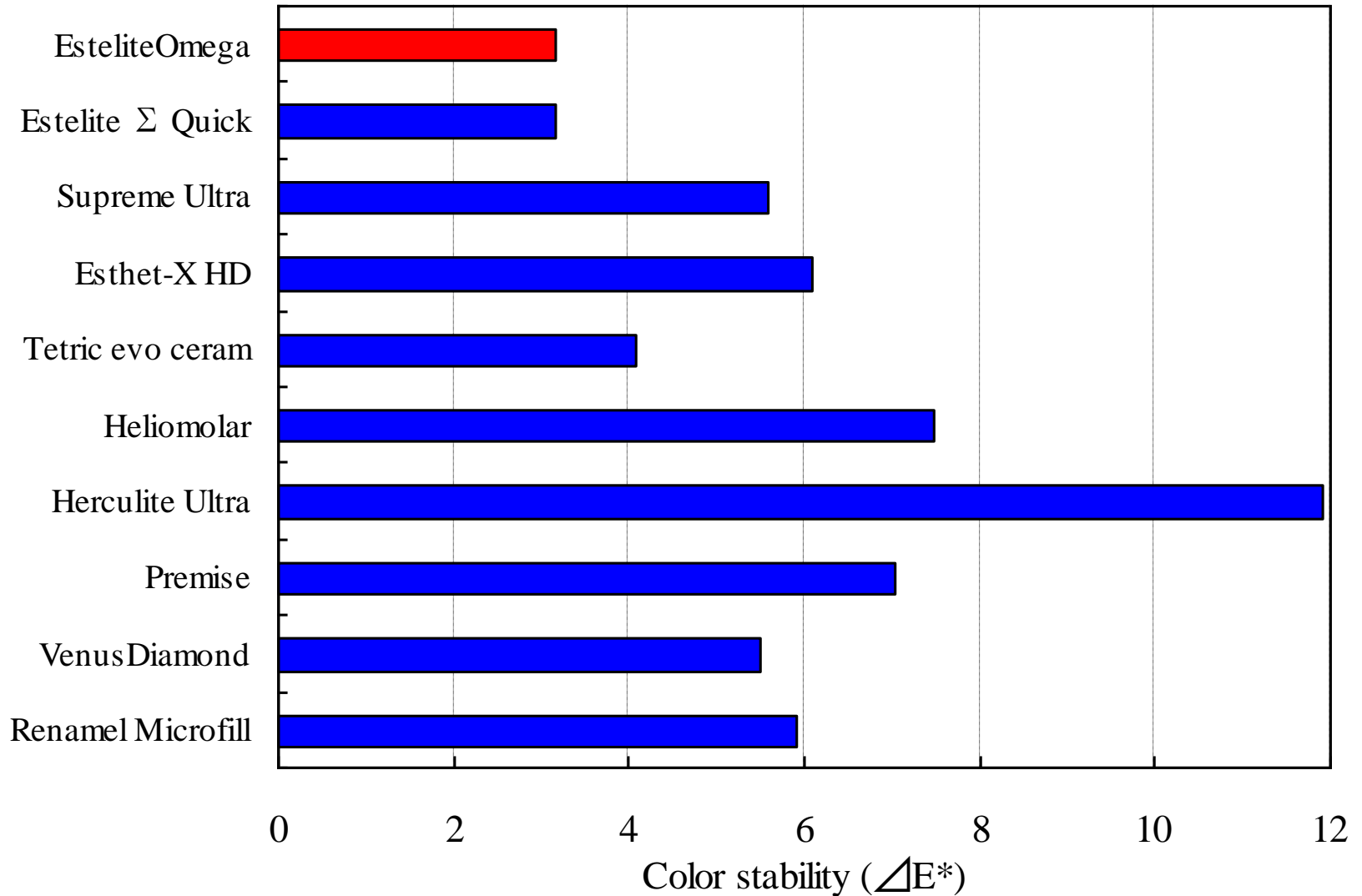
Polishability

※After 60second abrasion by Soflex (Superfine)
※The gloss of mirror surface is 100%

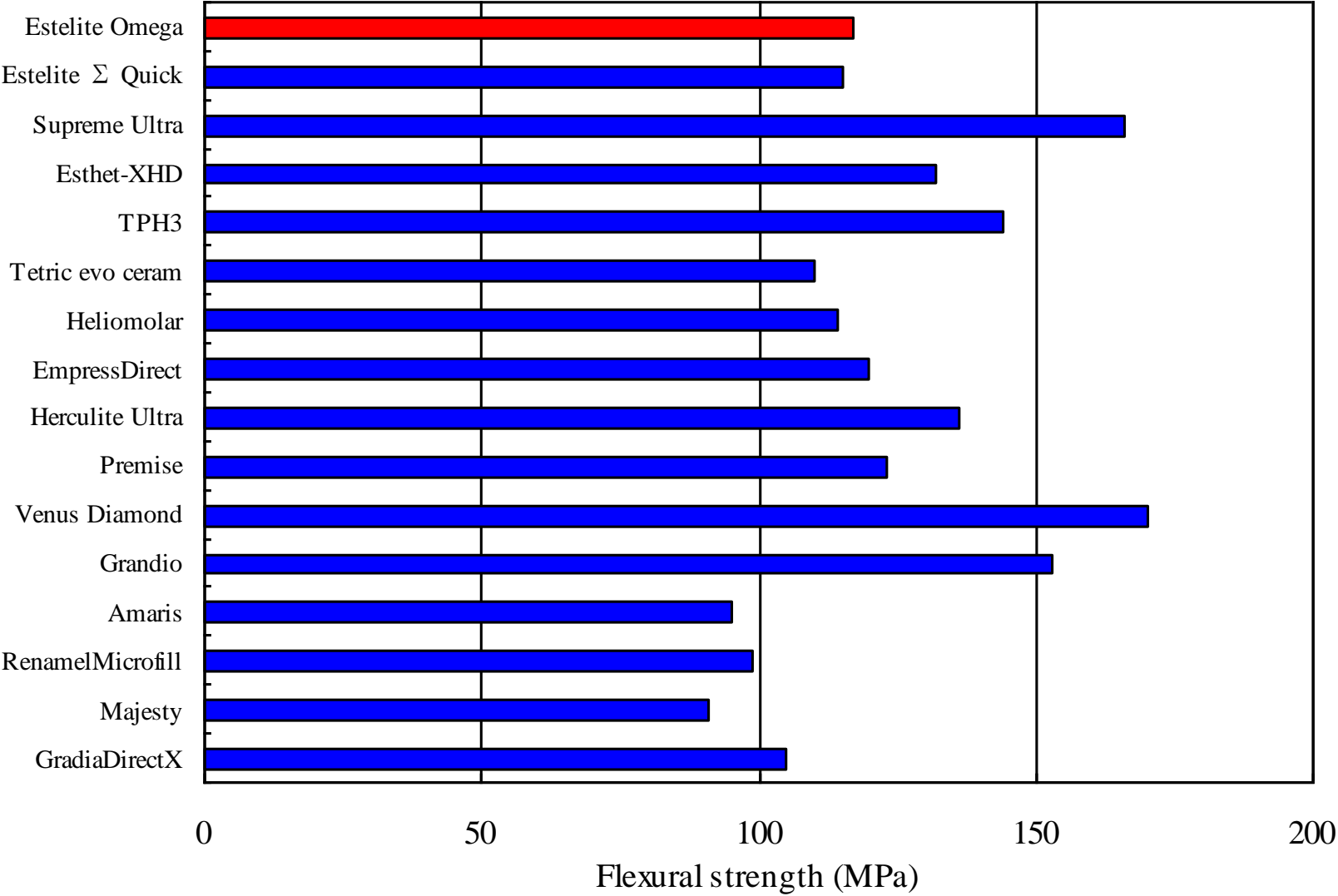


Color Stability

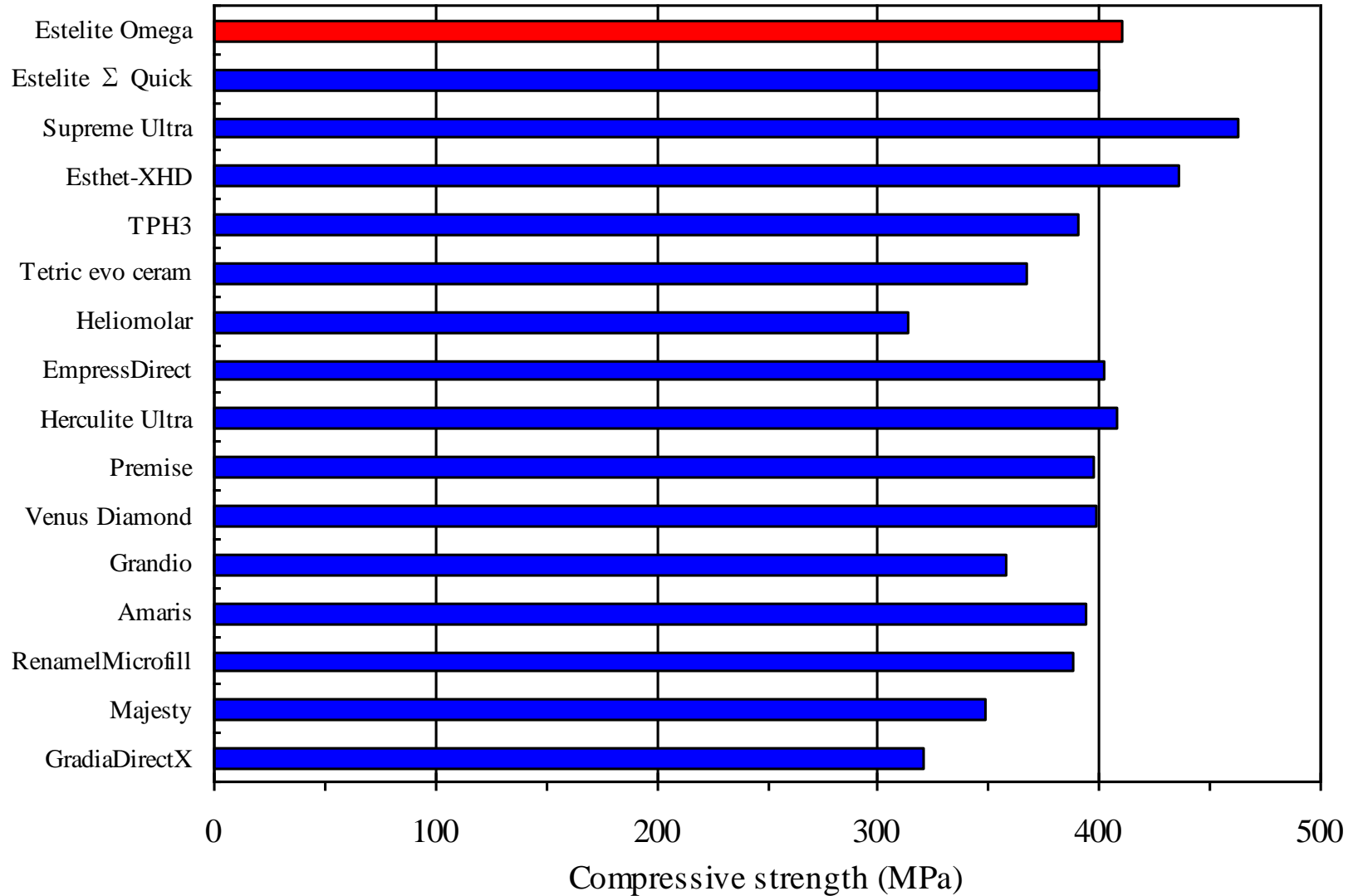
Specimen is stored in Coffee(7.4wt%) at 80°C for 24 hours.



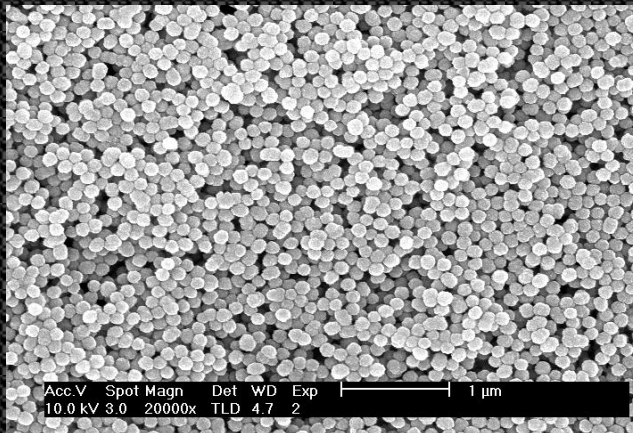
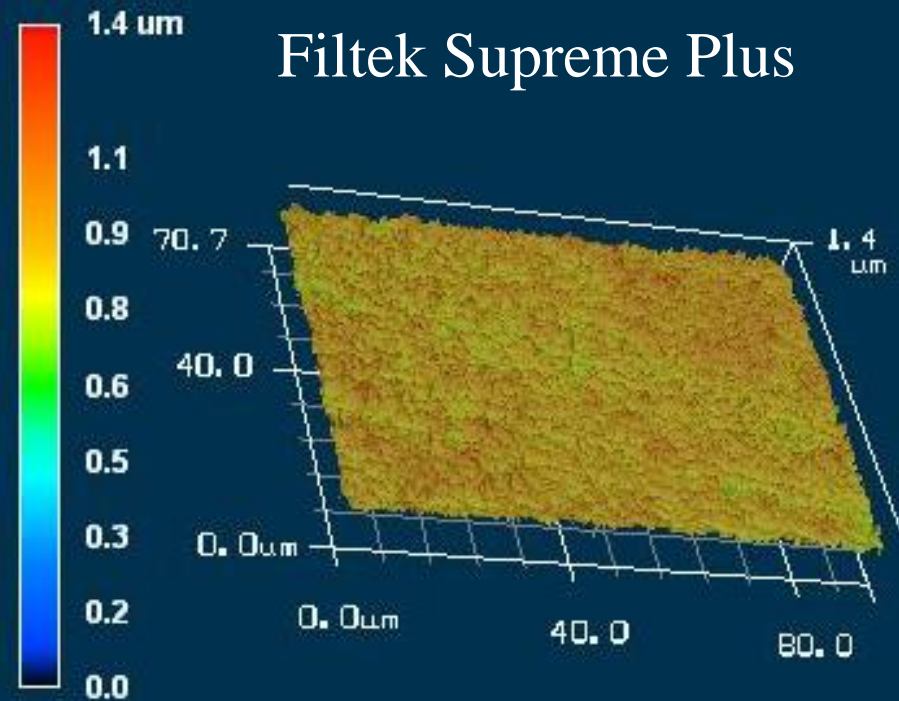
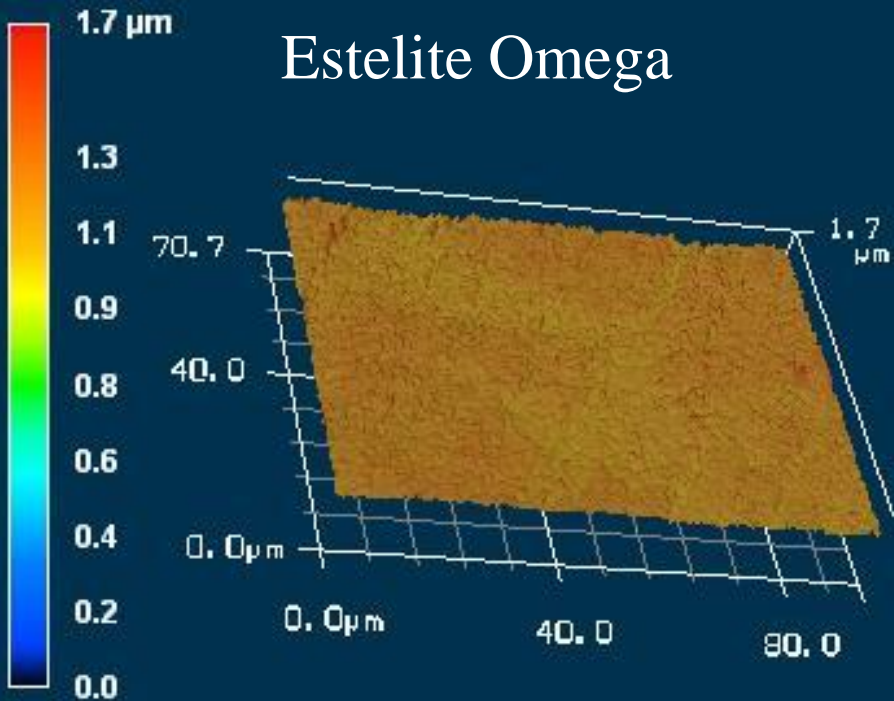
Flexural Strength



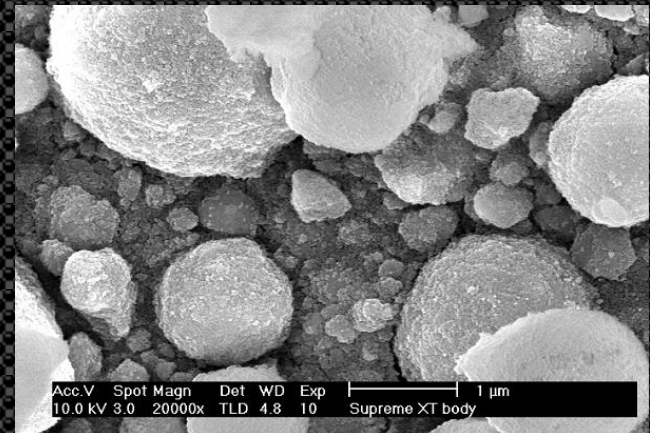
Compressive Strength



3D images of CR surface by laser microscope



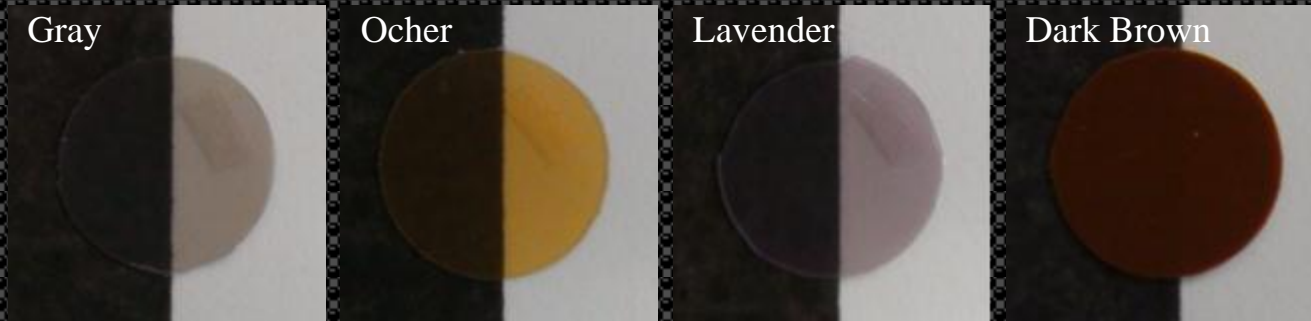
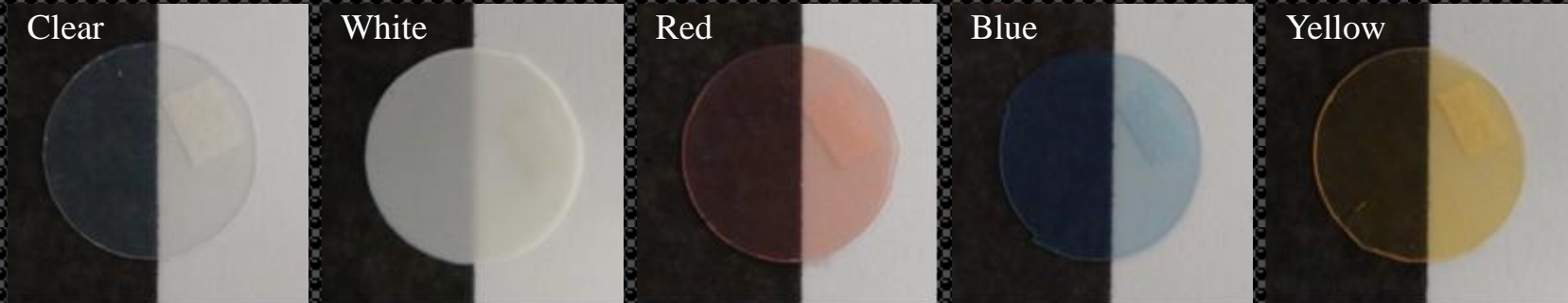
Supra-nano spherical Filler



Nanocluster Filler

Estelite Color

Shade Options



PO Pink Opaker
HCO High Chroma Opaker
MCO Medium Chroma Opaker
LCO Low Chroma Opaker