

The Clear Solution®

PixJet SFZ5 Application Notes

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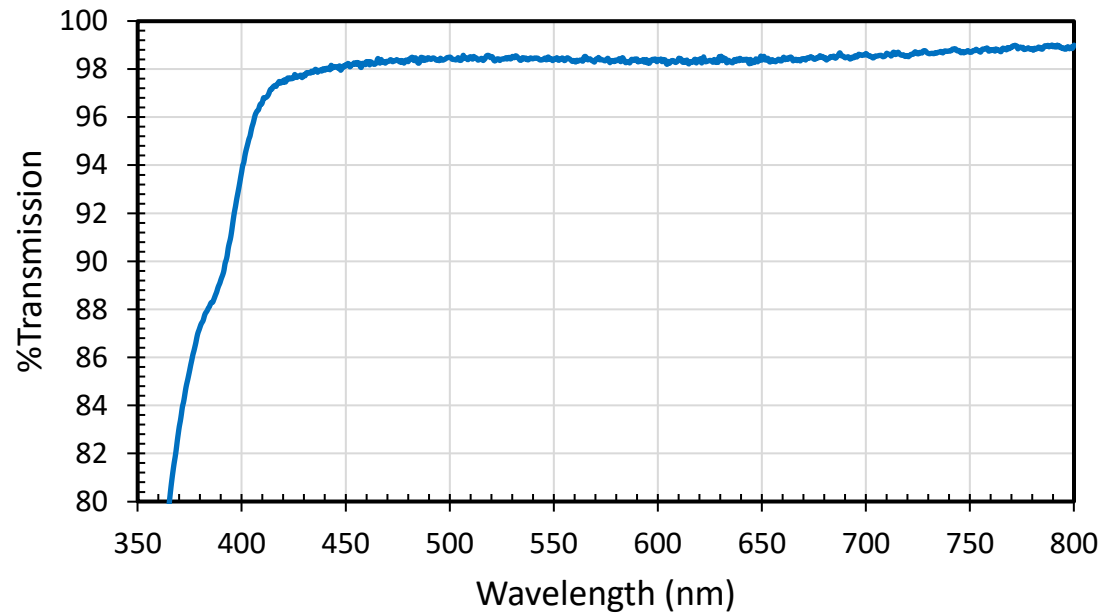
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Summary Table

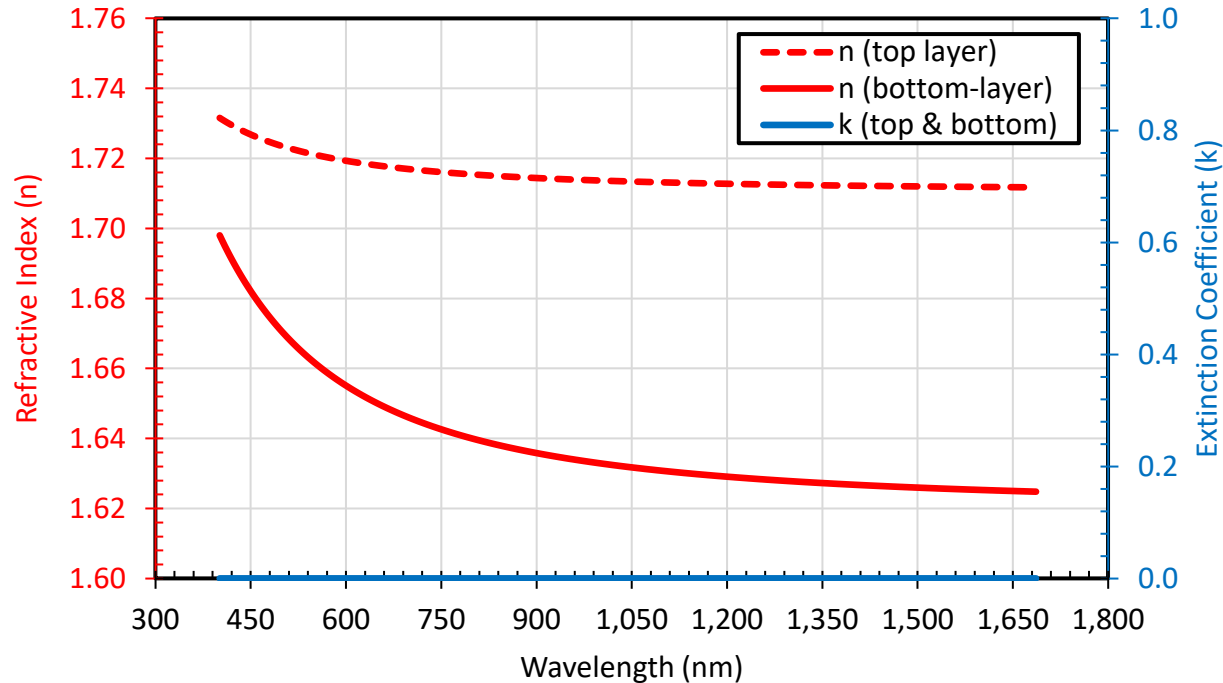
	Items	New Pixelligent IJ Ink
Formulation	Active Components	Acrylate-functional ZrO ₂ nanocrystals (10 nm) Acrylic Monomers
	Viscosity @25°C (cP)	18.4
	Surface Tension (dyne/cm)	25
Inkjet Printing	Nozzle Plate Wetting	None
	Printhead Heating	OK, up to 45 °C
	Ink Jet Tools used for testing	Dimatix DMP 2800 (R&D) JetXpert Inkjet Dropwatcher
	Wetting onto Glass Substrate	Good
Curing	UV condition	385nm UV-LED; 2 J/cm ² dose, 1000 mW/cm ² intensity under Air (N ₂ preferred)
Film Properties	RI (589 nm)	1.65
	%T (AVG 380-780 nm)	98%
	Film Thickness (um)	9.5—13.0
	Film Modulus (GPa)	1.2

Table data are typical values. Properties are not limited to the reported values

Film Optical Properties (UV-Vis)



Film Optical Properties (Ellipsometry)



- AVG Film Thickness = 11.3 μm
- Films cured under air show a thin top-layer with higher RI

Viscosity vs Temperature

