

LIGHT-CURABLE ADHESIVES

VERSUS

CYANOACRYLATES

WHICH IS BETTER FOR YOUR APPLICATION?

Light-Curable Adhesives		Cyanoacrylates
✓ Full cures in 1-30 seconds	Fast Cure Speeds	Fixture only in 10-60 seconds
✓ No cure until exposed to high-intensity light	Open Time [Time Before Cure Begins]	10-30 seconds
✓ Some with excellent moisture resistance	Moisture Resistance	Not designed for high humidity or long term moisture exposure
✓ Can withstand greater temperature extremes or a broader range of temperatures	Temperature Resistance	Not recommended for $\geq 225^{\circ}\text{F}$
Opaque materials block UV and visible light	Opaque Substrate Bonding	Not an issue ✓
✓ Grades range from flexible to rigid	Impact Resistance	Brittle with little impact resistance
Light-curing equipment required	Equipment	No equipment required ✓
✓ Accommodates large bond gaps (typically $< 1/4"$)	Gap Cure	Requires intimate contact
✓ None	Blooming	Produce white haze around bond-line after cure
✓ Rarely an issue	Stress Cracking	Tiny cracks in plastic can occur before cure
✓ Bonds dissimilar substrates	Bondable Substrates	Does not bond dissimilar substrates



Dymax manufactures light-curable adhesives, coatings, and maskants, as well as compatible dispensing and curing equipment. We focus on creating solvent-free materials that cure clean, green, and fast, helping engineering teams accomplish more in less time and with less negative impact on the environment.

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