

# PARLITE® UV Curable Adhesives

---



Glass Bonding

Optical Assembly

Medical Device Assembly

Plastic Bonding

Windshield Repair

Electronics Assembly



## PARLITE® UV Curable Adhesives

Parson offers wide range of UV and Visible light curing adhesives for variety of applications for bonding, encapsulating, coating, tacking and sealing. Parson's state-of-the-art research and development facility offers custom formulations to meet customer's specifications and performance requirement. This brochure described some of our most popular grades but there are many other grades available which are not listed here. These products are available in wide variety of packing such as syringe, bottle and drum.

### UV Adhesives for Glass Bonding

GRADE	Substrates	Viscosity @ 25 <sup>0</sup> C cps	Color	Refractive Index	Lap Shear Strength	Hardness	Application
4111	Glass to itself and Metals	5,000 - 7,000	Clear	1.475	3,675 psi	72D	High viscosity, high strength glass to metal bonder. Wide range of industrial applications.
4116	Glass, Metal, Plastics	80 - 120	Clear	1.509	3,450 psi	70D	Low viscosity, wicking type. Low bubble formation with excellent flow. Multi-purpose
4123	Glass to Glass, Metals	300 - 500	Clear	1.495	3,750 psi	68D	Ideal for decorative or structural glass bonding.
4127	Glass, Metals	800 - 1,000	Clear	1.495	3,650 psi	72D	Ideal for bonding glass bevels. Good flexibility and clarity.
4130	Glass, Metals	2,000 - 2,500	Clear	1.495	3,400 psi	75D	Suitable for wide variety of industrial applications. Strong adhesion to wide variety of metals.
4134	Glass, Metals	3,500 - 4,000	Clear	1.490	3,850 psi	65D	Ideal for wide variety of industrial bonding applications. Suitable to join small decorative glass/metal objects.
4145	Glass, Metals	7,500 -10,000	Clear	1.485	3,700 psi	70D	UV, heat or activator curable adhesive. Ideally suitable for deep cure or where light cannot penetrate. Durable adhesive designed for glass and metals bonding.
4152	Glass, Metal, Plastics	18,000 - 20,000	Clear	1.465	3,950 psi	75D	Visible light curable. Excellent adhesion to wide variety of plastics, glass and metal surfaces. High strength.

## UV Adhesives for Plastic Bonding

Grade	Substrates	Viscosity @ 25°C cps	Shore Hardness	Linear Shrinkage	Elongation	Color	Application
4311	PVC, PC, ABS, PU, PS, Steel	150 - 200	70D	0.9%	55%	Clear	Plastic Window bonding. Appliance and Plastic assembly.
4320	PET, PVC, PUR, PS, PETG, ABS, Steel	450 - 550	60D	1.0%	68%	Clear	Plastics lamination, Plastic housing assembly. Plastic window bonding. Bonding & Sealing.
4326	PMMA, PC, PETG, Glass	5,000 - 7,500	55D	1.2%	45%	Clear	Display assembly. Aerospace/ Automotive assembly. Electrical potting.
4332	PVC, PET, APET, RPET, Paper	3,000 - 4,000	45D	1.1%	92%	Clear	Clamshell packaging. Blister packing. Bonding & Sealing.

## UV Adhesives for Optical Assembly

PARSON manufacture wide range of UV/Visible cure adhesives for wide range of optical applications such as doublet bonding, lens, prism, optic mounting, eyeglass lens laminating, fiber optic butt bonding, bundling and splicing.

GRADE	Substrates	Viscosity @ 25°C cps	Color	Refractive Index	Shear Strength	Hardness	Application
4435	Glass, Metals	1,000 - 1,500	Clear	1.507	2,900 psi	75D	Multi-cure, UV/Heat activator. Suitable where light will not reach. Multi-purpose optical adhesive.
4450	Glass, Metals	10,000 - 12,500	Clear	1.497	2,500 psi	75D	Low out-gassing for alignment stability. Excellent strength.

## Windshield Repair Resin

GRADE	Substrates	Viscosity @ 25°C cps	Color	Refractive Index	Shear Strength	Shore Hardness	Application
4200	Glass	6 - 10	Clear	1.51	2,000 psi	75D	Low viscosity, wicking grade that penetrates to fill small hair line cracks.
4220	Glass	18 - 22	Clear	1.52	2,650 psi	75D	Low viscosity resin used for Star, bull's eye repair as well as small hair line cracks.
4240	Glass	38 - 45	Clear	1.52	2,800 psi	74D	Medium viscosity used for long crack, star and bull's eye repair.
4500	Glass	900 - 1,100	Clear	1.505	3,400 psi	80D	High viscosity resin Ideally designed as pit filler.

## UV Adhesives for Medical Devices

PARSON offers wide range of UV curable adhesives for disposable medical devices such as syringe, respiratory masks, tube sets, catheters, reservoirs, oxygenators, medical testing equipments, optical assembly, etc.

Grade	Substrates	Viscosity @ 25°C cps	Shore Hardness	Linear Shrinkage	Elongation	Color	Application
4011	Plastics, steel	500 - 700	77D	1.2%	26%	Clear	Specifically designed for bonding hypodermic needles into hubs. Excellent adhesion to thermoplastic and steel.
4025	PC, PVC, PUR, PS, PETG, ABS	4,000 - 6,000	60D	1.0%	42%	Clear	Suitable for intravenous tube sets, oxygenators, reservoirs, diagnostics electronics, etc. Excellent adhesion to polycarbonates and rigid PVC.
4027	PC, PVC, PUR, PS, PETG, ABS	1,000 - 1,500	63D	1.2%	23%	Clear	Suitable for face masks, tube sets & fittings, breathing circuits, resuscitator bags, etc
4031	Highly plasticized PVC, PC, PU, PS, PETG	100 - 200	65D	1.1%	28%	Clear	Specifically designed for breathing circuits, butterfly sets and masks. Low viscosity with excellent adhesion to plasticized PVC and metals.

## UV Adhesives for Electronic Assembly

GRADE	Substrates	Viscosity @ 25°C cps	Shore Hardness	Elongation	Cure Mechanism	Tensile Strength	Application
4710	Metals, Plastics, Ferrite	17,000 - 20,000	45D	90%	UV, Visible or Heat	1,000 psi	High viscosity encapsulant for precision application to specific electronic assembly areas, glob top application.
4725	Metals, Ferrite, Plastics	600 - 800	55D	72%	UV, Visible or Heat	750 psi	Specifically designed for potting. Bonds with slight adhesion: for connectors, thermal switches, temper proofing.
4750	Metals, Ceramic, Glass-filled epoxy	150 - 200	85D	12%	UV, Visible and Heat	500 psi	Tough, glossy conformal coating with excellent adhesion to wide variety of boards and masks. Fast cure.
4760	Plastics, Glass, Metals	40,000 - 60,000	52D	48%	UV, Visible	1,200 psi	Potting, Encapsulating, bonding of electronic parts.



### PARSON ADHESIVES, INC.

Sales Office: 3345, Auburn Road, Suite 107, Rochester Hills, MI 48309, USA  
 Phone (248) 299-5585 • Fax (248) 299-3846  
 Manufacturing Plant: 2545 Eastside Park Road Evansville, IN 47715 USA  
 Email: sales@parsonadhesives.com • Web Site: www.parsonadhesives.com

