



# PARLITE® UV Curable Adhesives

PARSON ADHESIVES, INC. 

Industrial Bonding and Assembly • Optical Adhesives • Windshield Repair Adhesives  
Medical Device Adhesives • Electronic Adhesives



## PARLITE® UV Curable Adhesives

Parson offers complete line of UV and Visible light curing adhesives for wide 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. Our chemists and engineers work with customers to solve their bonding, curing and performance issues.

This brochure describes some of our standard grades. These products are available in wide variety of packing such as syringe, bottle and drum.

### Industrial Bonding and Assembly

Grade	Substrates	Viscosity @ 25 °C	Color	Refractive Index	Shear Strength	Hardness	Application
3021	Glass, Metals	500 cps	Clear	1.495	7.5 N/mm <sup>2</sup>	60D	Ideal for bonding glass bevels. Good flexibility and clarity.
4111	Glass to itself and Metals	6,000 cps	Clear	1.475	10.5 N/mm <sup>2</sup>	72D	High viscosity, high strength glass to metal bonder. Wide range of industrial applications. Possible to cure under sunlight.
4123	Glass to Glass, Metals	100 cps	Clear	1.495	30 N/mm <sup>2</sup>	55D	Ideal for decorative or structural glass bonding. Very low viscosity penetrates between the joints to provide very high bond.
4125	Glass to Plastics	65 cps	Clear	1.485	23 N/mm <sup>2</sup>	60D	Ideal for bonding hard plastics to glass. Suitable for laminating plastic filters between glass sheets. High strength, very low viscosity.
4130	Glass, Metals	3,500 cps	Clear	1.490	25 N/mm <sup>2</sup>	65D	Ideal for wide variety of industrial bonding applications. Suitable to bond small decorative glass/metal objects.
4020	Glass, Metals	2,000 cps	Clear	1.495	19 N/mm <sup>2</sup>	68D	Suitable for wide variety of industrial applications. Strong adhesion to wide variety of metals.
4145	Glass, Metals	7,500 cps	Clear	1.485	26 N/mm <sup>2</sup>	70D	UV, heat or activator curable adhesive. Ideally suitable for deep cure or where light cannot penetrate. Durable adhesive designed for glass and metal bonding.
4150	Glass, Metals, Plastics	2,500 cps	Clear	1.465	17 N/mm <sup>2</sup>	65D	Visible light curable. Excellent adhesion to wide variety of plastics, glass and metal surfaces. High strength.
4155	PC, Metals, Plastics	4,000 cps	Clear	1.455	19 N/mm <sup>2</sup>	68D	Excellent adhesion to polycarbonate and various thermoplastics to metals. Visible light curable.

## Optical Adhesives Selection Guide

PARSON manufactures 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.

We have listed our standard grades as a reference. We offer custom formulations to meet your specific requirements.

Grade	Substrates	Viscosity @ 25 °C	Color	Refractive Index	Shear Strength	Hardness	Application
4410	Glass, Metal, Plastics	2,500 cps	Clear	1.505	2,300 psi	60D	Multi-purpose, doublet bonder (glass to glass), lens mounting, etc.
4420	Glass, Metals, Plastics	300 cps	Clear	1.504	1,200	35D	Low stress, flexible, multi-purpose, doublet bonder, lens mounting, fiber optics, etc.
9300	Glass, Metals, Plastics	3,500 cps	Clear	1.510	2,700 psi	65D	Low shrinkage, optically clear. Meets military specification for optical adhesive. Good strength.
4435	Glass, Metals	1,000 cps	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 cps	Clear	1.497	2,500 psi	75D	Multi-cure, UV/heat/activator. Suitable where light will not reach. Multi-purpose optical adhesive.
4460	Glass, Metal, Plastics	80 cps	Clear	1.509	2,000 psi	70D	Low viscosity, wicking type. Low bubble formation with excellent flow. Multi-purpose.
4475	Glass, Metals, Plastics	130 cps	Clear	1.498	2,400 psi	40D	Eyeglass lens laminating, potting in metal mounts. Multi-purpose, glass, metal, CR-39, etc.
4480	Glass, Plastics	175 cps	Clear	1.475	2,200 psi	65D	Plastic sunglass lens laminating, Bonds to PVA, CR-39 and CAP. Provide UV blocking to 410 nm.
4488	Glass, Metals	5,000 cps	Clear	1.520	3,200 psi	85D	Specifically designed for fiber optic applications such as butt bonding, bundling and splitting.

## Windshield Repair Adhesives Selection Guide

Grade	Substrates	Viscosity @ 25 °C	Color	Refractive Index	Shear Strength	Shore Hardness	Application
4200	Glass	10 cps	Clear	1.51	2,000 psi	75D	Specifically designed for automotive windshield repair. Low viscosity, penetrates to fill small cracks.
4500	Glass	1000 cps	Clear	1.505	3,400 psi	80D	Ideal to repair star and bull's-eye of the automotive windshield. Fast cure even under the sunlight.

## Medical Device Adhesives Selection Guide

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

PARLITE line of UV curable adhesives is clear, high strength and excellent adhesion to glass, metals and wide variety of medical plastics. Custom formulations are available.

Grade	Substrates	Viscosity @25 °C	Shore Hardness	Linear Shrinkage	Elongation	Color	Application
4011	Plastics, Steel	90 cps	77D	1.2%	26%	Clear	Specifically designed for bonding hypodermic needles into hubs. Low viscosity with excellent adhesion to thermoplastic and steel.
4019	Highly plasticized PVC,PC, PU,PS	100 cps	78D	1.1%	28%	Clear	Specifically designed for breathing circuits, butterfly sets and masks. Low viscosity with excellent adhesion to plasticized PVC and metals.
4025	PC,PVC	5,000 cps	60D	1.0%	42%	Clear	Suitable for intravenous tube sets, oxygenators, reservoirs, diagnostics electronics, etc. Excellent adhesion to polycarbonates and rigid PVC.
4031	PC,PVC	250 cps	55D	1.2%	45%	Clear	Medium viscosity adhesive for wide variety of medical device assembly. High strength.

## Electronic Adhesives Selection Guide

Grade	Substrates	Viscosity @25 °C	Shore Hardness	Elongation	Cure	Tensile	Application
4710	Metals, Plastics, Ferrite	17,000 cps	45D	90%	UV, Visible or Heat	1,000 psi	High viscosity encapsulant for precision application to specific electronic assembly areas, glob top application.
4019	Metals, Ferrite, Plastics	600 cps	55D	72%	UV, Visible or Heat	750 psi	Specifically designed for potting. Bonds with light adhesion: for connectors, thermal switches, temper proofing.
4025	Metals, Ceramic, Glass-Filled epoxy	150 cps	85D	12%	UV, Visible and Heat	Clear	Tough, glossy conformal coating with excellent adhesion to wide variety of boards and masks. Fast cure.



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