

MASTER BOND UV CURABLE PRODUCT SELECTOR GUIDE

Selected Master Bond UV Curable Adhesives, Sealants, Coatings & Encapsulants

Partial Listing Only — Other Grades Available

Master Bond Grade	Viscosity RT, cps	Color Code	Hardness Shore D	Service Temp Range, °F	Applications
UV10	300-400	light amber clear	60-65	-60 to 250 °F	Low viscosity general purpose type adhesive, sealant, coating and encapsulant. Will cure rigid and up to 1/8" deep.
UV10FL	600-700	light amber clear	45-50	-60 to 250 °F	Flexibilized version of UV10. Excellent resistance to mechanical shock and vibration along with superior thermal cycling properties.
UV10LV	150	light amber clear	75	-60 to 250 °F	Ultra-low viscosity adhesive, sealant, coating and encapsulant. Superb electrical properties. Ideal for conformal coatings.
UV10MED	1,200-1,500	light amber clear	60-65	-60 to 250 °F	Medical version of UV10. USP Class VI approved. Good electrical and physical strength properties. Resists sterilants well.
UV10PSA	16,000 & 85,000	transparent	N/A*	-60 to 250 °F	High strength, fast tacking, pressure sensitive adhesive. Available in two different viscosities allowing for versatile application methods.
UV10TK	30,000-40,000	light amber clear	70-75	-60 to 300 °F	Higher viscosity version of UV10. Enhanced temperature & chemical resistance. Good dimensional stability. Low shrinkage upon cure.
UV11-3	60	transparent	N/A*	-60 to 250 °F	Ultra-low viscosity, spin coatable, scratch resistant coating. Used with glass, acrylics, polycarbonates and other plastics.
UV14-3	8,000	transparent	30	-60 to 250 °F	Flexible adhesive, sealant and encapsulant. Easily removable by conventional solvents. Has a low index of refraction (1.477).
UV14X-2TK	thixotropic	transparent	60	-60 to 250 °F	Semi-flexible adhesive, sealant and encapsulant. Exceptional durability. Superior electrical properties. Low shrinkage.
UV15	120-150	slight amber clear	>75	-60 to 300 °F	Very low viscosity adhesive, sealant & coating. Features good temperature stability, chemical resistance and low shrinkage.
UV15-42C	paste	translucent	>50	-60 to 250 °F	Ultra-fast curing adhesive/sealant. Superior dimensional stability. Low shrinkage. Has non-drip application feature.
UV15-7	1,400-1,800	transparent	70	-60 to 300 °F	Excellent adhesive, sealant, coating and encapsulant. Cures over 1/8" deep. Superb adhesion and non-yellowing properties.
UV15-7DC	1,500-2,500	transparent	>70	-60 to 300 °F	Dual cure version of UV15-7. Will cure in "shadowed out" areas by adding heat (250 °F). Excellent physical and electrical properties.
UV15-7LRI	6,000-10,000	transparent	50	-60 to 250 °F	Low index of refraction (1.481). Adhesive, sealant and coating with good mechanical strength properties.
UV15-7SP4	800-1,500	transparent	35	-80 to 250 °F	Highly flexibilized version of UV15-7. Outstanding thermal and impact resistance. Very good non-yellowing properties.
UV15-7SP4DC	800-1,500	transparent	35	-80 to 250 °F	Dual cure version of UV15-7SP4. Cures in "shadowed out" areas by heating at 250 °F.
UV15-7TK1A	paste	translucent	65	-60 to 300 °F	Paste version of UV15-7. Dimensionally stable. Low shrinkage. Used as an encapsulant & glob top in electronic & opto-electronics.
UV15FL	200-300	light amber clear	60	-60 to 250 °F	Flexible version of UV15. Enhanced peel strength. Excellent impact resistance and thermal cycling properties.

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UV15TK	8,000-10,000	slight amber clear	>75	-60 to 350 °F	High viscosity version of UV15. Enhanced temperature resistance. Post curing with heat augments properties.
UV15X-2	6,000-8,000	transparent	65	-80 to 250 °F	Semi-flexible adhesive, sealant & encapsulant. Cures over 1/4" deep. Good non-yellowing properties. Bonds dissimilar substrates well.
UV15X-2GT	paste	translucent	65	-80 to 250 °F	Easily processable glob top. Excellent moisture resistance. Offers good heat resistance and superior thermal cycling properties.
UV15X-5	120,000	transparent	35-40	-80 to 250 °F	Highly flexible adhesive, sealant & coating. Superb peel strength & abrasion resistance. Withstands shock, vibration & thermal cycling.
UV15X-6 MED	24,000	transparent	25-30	-80 to 250 °F	Medical grade version of UV15X-5. USP Class VI approved. Excellent adhesion to metals, plastics, glass and rubber.
UV16	120-150	slight amber clear	>75	-60 to 300 °F	Enhanced temperature and chemical resistance. Very low shrinkage and good dimensional stability.
UV18 MED	1,800-2,000	transparent	55-60	-60 to 250 °F	Class VI medical adhesive, sealant & coating. Outstanding resistance to medical sterilants. Excellent electrical insulation properties.
UV18S	1,800-2,000	slight amber clear	55-60	-60 to 250 °F	Adhesive, sealant & coating with excellent resistance to many acids, bases and solvents.
UV19	300	transparent	15 (Shore A)	-60 to 250 °F	Ultra-flexible, soft curing. For laminating, sealing and bonding. Adheres well to many plastic films.
UV21	32,000-36,000	transparent	20-25	-60 to 250 °F	Flexible adhesive, sealant and coating with excellent adhesion to acrylics, polycarbonates, glass and other optical-type substrates.
UV22	4,000	transparent	>85	-60 to 300 °F	Highly filled, nanoparticle reinforced system. Greatly enhanced physical strength properties. Unsurpassed low shrinkage. Outstanding hardness and abrasion resistance.

*Shore D hardness can not be measured for this system

The cure speed of UV systems depends on depth of cure, the intensity of UV light source and the distance of the UV light source from the material being cured.

Master Bond UV products are specially packaged to protect them from UV light exposure. Store the product in its original container. Keep closed when not in use. Shelf life for most systems in original, unopened containers is 6 months in bottles or cans and 3 to 6 months in syringes depending on the product.

Master Bond Inc.

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