

Section One Company Profile

- Mission Statement
- Core Competencies

Section Two Advancement in UV Technology

- Wide Offerings & Specialty Chemicals
- UV curing Equipment, Measurement & Control
- Matching Chemistry

Section Three The Incure Experience

- IncureDirectTM
- IncureConsultTM
- IncureCollaborateTM
- IncureLabTM
- IncureRentalTM Program



Section One Company Profile

- Mission Statement
- Core Competencies

Section Two Advancement in UV Technology

- Wide Offerings & Specialty Chemicals
- UV curing Equipment, Measurement & Control
- Matching Chemistry

Section Three The Incure Experience

- IncureDirectTM
- IncureConsultTM
- IncureCollaborateTM
- IncureLabTM
- IncureRentalTM Program



Incure, Inc

1 Hartford Square, Box 16 West,
Suite C-3
New Britain, CT 06052, USA
Tel: (860) 748-2979
email: support@uv-incure.com



Incure Adhesives Manufacturing Pte Ltd

33 Ubi Avenue 3 #04-23
Vertex Tower B
Singapore 408868
Tel: (65) 6270-2188
email: support@incurelab.com



Mission Statement



We **listen** to you, deliberate and **understand** your needs before making every attempt to **solve** your application needs.



Chemistry-match the right material, equipment and process to your application matters to us and gives us our sense of achievement.



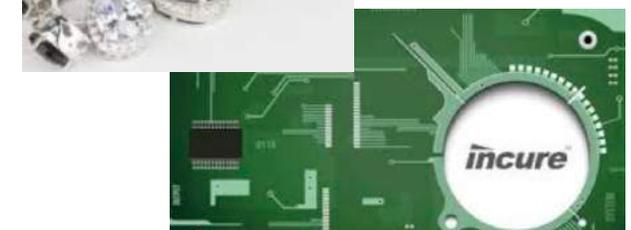
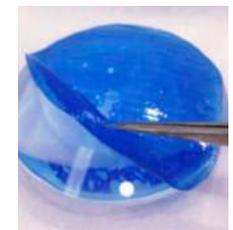
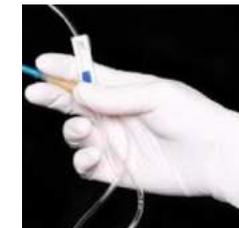
We are a **research company** committed to the development of advanced UV technologies for bonding, coating and sealing solutions.



We are committed to produce the highest quality and service for our clients and to dedicate ourselves to **integrity, honesty, fairness and responsibility.**

Core Competencies

- More than **50 years** of combined experience in the formulation of advanced UV/visible light curing adhesives. Team of **certified** application consultants and **experienced** applications development engineers to support end-users, partners and distribution networks.
- **Wide selection** of products available for Medical, optical, electronics, automotive, jewelry, aerospace, construction and industrial use. Specific applications -bonding, coating, encapsulating, gasketing, sealing and masking.
- **Matching-Chemistry™**
A practical and professional approach to successful implementation of UV curing in terms of cost, efficiency and quality excellence and environmental consciousness. Adhesive selection, Curing equipment, Dispensing and Curing processes, Maintenance and Control are all instrumental in designing a robust solution to complicated/unique applications.



Section One Company Profile

- Mission Statement
- Core Competencies

Section Two Advancement in UV Technology

- Wide Offerings & Specialty Chemicals
- UV curing Equipment, Measurement & Control
- Matching Chemistry

Section Three The Incure Experience

- IncureDirectTM
- IncureConsultTM
- IncureCollaborateTM
- IncureLabTM
- IncureRentalTM Program



Advancement in UV Technology

1. Rapid fixture and full cure in seconds
2. Tack-free time
3. Choice of sleek, tack-free or tacky surface
4. Ease of shipment (Non-DG) & storage (room temperature)
5. Cost savings (energy, process time, space, manpower)
6. In-line inspection, fluorescing and color-change capabilities
7. Cure-On-Demand facilitates alignment positioning
8. 100% solids, solvent-free, no volatiles
9. Viscosity variation (25 - 2,000,000 cP)
10. Tensile: Up to 12,000 psi (substrates failure for plastics)
11. Elongation: Up to 1,500%
12. Hardness Range: A5 to D95
13. Quad-CureTM for 4 different cure methods
14. Multi-Substrates for bonding dissimilar substrates (metals, plastics etc)
15. Low surface energy (30 - 36 dynes) material (thermoplastic elastomers (TPE) bonding)

Wide Offering of Bonders, Sealants and Coating Materials

Incure manufacture and offer a wide range of medical grade (compliant to ISO 10993-5) and industrial grade (UL & RoHS compliant) adhesives, epoxies, encapsulates, masks and coatings

- BlueBondTM Low-energy UV cure bonders
- Cast-MaxTM Stereolithography Adhesive (SLA) 3D Resins
- Cyro-WeldTM Medical Grade UV/Visible Light Curing Adhesives & Cyanoacrylates
- EncapTM Encapsulant for electronics assemblies
- Epo-WeldTM Single Component & Two-Part Epoxies
- LiteMaskTM UV Masks - Acrylic Urethanes Ultra-clean, Temporary/Permanent Masks
- OptikTM UV/Visible Light Curing Optical Adhesives
- Pyra-SilTM UV and UV/Moisture Dual-cure Silicones
- UHTETM Ultra-High Temperature Epoxies
- Ultra-IlluminaTM Dual-Cure Conformal Coatings
- Uni-SealTM Form-In-Place Gaskets (FIPG) and Sealants



Cyro-Weld™ 5000 Medical Series

Specialty Chemicals

Flag-Ship Products	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	Cyro-Weld™	
Web Highlights	5004	5004F	5005	5013F	5017	5020	5020F	5021F	5040	
Type of Bonder	High Performance Plastics	High Performance Plastics	High Strength Plastics	High Strength Plastics	Multi-Substrates (High Strength Plastics)	Multi-Substrates	Multi-Substrates	Multi-Substrates (High Strength Plastics)	Multi-Substrates (Plastics)	
Type of Cure - Product Title	UV/Visible/LED Curable High-Strength Low Shrink Medical Bonder	UV/Visible/LED Curable High-Strength Fluorescing Medical Bonder	UV/Visible/LED Curable High-Strength Low Shrink Medical Bonder	UV/Visible/LED Curable High-Strength Fluorescing Medical Bonder	UV/Visible/LED Curable Superior Multi-Substrate Medical Bonder	UV/Visible/LED Curable Multi-Substrate Low Shrink Medical Bonder	UV/Visible/LED Curable Multi-Substrate Low Shrink Medical Bonder	UV/Visible/LED Curable Multi-Substrate Low Shrink Medical Bonder	UV/Visible/LED Curable Multi-Substrate Low Shrink Medical Bonder	
Competitive Products (Products offered with similar properties. Users should test to confirm suitability)	Dymax 181-M Tangent 7551 Vitalit 9181-4000	Dymax 181-M Tangent 7551 Vitalit 9181-4000	Tangent 7999-V	Dymax 20163	3393	Dymax 182M Dymax 182M-ULW Dymax 101-MSK Tangent 7090-V	Dymax 182M Dymax 182M-ULW Dymax 101-MSK Tangent 7090-V	Dymax 1180-M Lower viscosity of Loctite 3311	Dymax 182M Dymax 182M-ULW Dymax 101-MSK Tangent 7041	
Surface After Full Cure †ISTM D189	Tack-Free	Tack-Free	PSA-Feel	Slight Tack	Slight Tack	Tack-Free	Tack-Free	Grippy	Tack-Free	
Tack-Free/Full Cure Surface using †200P (UVA 150mW/cm²) / †3000 (UVA 2,800mW/cm²)	30s / 3s	30s / 3s	1s / 1s	3s / 1s	4s / 1s	20s / 2s	20s / 2s	1s / 1s	4s / 1s	
Glass Fixture Time †200P (UVA 150mW/cm²)	1s	1s	1s	1s	2s	1s	1s	1s	1s	
Color / Appearance	Single Component Slight Yellow Tint	Single Component Slight Yellow Tint, Fluorescing	Single Component, Clear	Single Component Slight Yellow Tint	Single Component Amber	Single Component, Slight Yellowish Tint, Clear	Single Component, Slight Yellowish Tint, Fluorescing	Single Component, Clear	Single Component, Slight Yellowish Tint, Clear	
Viscosity cP@20rpm ASTM D2556	1,500 - 3,500	1,500 - 3,500	3,500 - 5,500	900 - 1,400	7,000 - 12,000	40 - 100	40 - 100	100 - 200	80 - 180	
Shore Hardness ASTM D2240	D70 to D80	D70 to D80	D51 to D61	D74 to D84	D60 to D70	D77 to D87	D77 to D87	D68 to D78	D80 to D90	
Linear Shrinkage †ISTM D2566	0.60%	0.60%	0.03%	0.50%	0.10%	0.10%	0.10%	0.10%	0.10%	
Water Absorption ASTM D570	1.10%	1.10%	4.40%	0.30%	0.50%	1.50%	1.50%	0.50%	1.60%	
Tensile Strength (PSI) ASTM D638 ^ - Substrate Failure * - PC-PC / SS-SS / S-S / AL-AL	PC-PC	10,800^	10,800^	6,900^	6,300^	6,900^	2,900	2,900	7,000^	6,900^
	PC-SS	600	600	3,400	2,200	3,900	2,700	2,700	5,200^	3,200
	PC-S	1,000	1,000	3,500	1,200	4,800^	2,700	2,700	5,400^	3,600
	PC-AL	1,300	1,300	3,200	3,400	5,400^	2,300	2,300	4,200	3,800
Elongation at Break ASTM D638	60%	60%	812%	73%	913%	1%	1%	82%	1%	
Temp. Resistance †ISTM D386	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	
Young's Modulus MPa ASTM D638	198	198	14	243	7	1,916	1,916	82	749	
Glass Transition Tg °C †ISTM D366	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Average Linear CTE †ISTM D696	96	96	123	96	119	Not Available	Not Available	87	Not Available	
Product Highlights (Functions/Specialty)	Ultrafast curing, medium viscosity, very high strength medical bonder for reservoir/catheter/pressure transducer/oxygenator assemblies. Formulated to meet ISO 10993-5. Passes ETO & gamma sterilization.	Ultrafast curing, medium viscosity, very high strength fluorescing medical bonder for reservoir/catheter/pressure transducer/oxygenator assemblies. Formulated to meet ISO 10993-5. Passes ETO & gamma sterilization.	High-strength multi-substrate bonder. For medical devices with demanding applications. Offers adaptability, strength and rapid cure. Tough-yet-flexible material with high reliability. Passes ETO and gamma sterilization.	Ultrafast curing, medium viscosity, very high strength fluorescing medical bonder for reservoir/catheter/pressure transducer/oxygenator assemblies. Formulated to meet ISO 10993-5. Passes ETO & gamma sterilization.	Multi-substrate (metals/glass/plastics), high strength bonder for rigid plastic fittings to flexible tubings (elastomers). Low shrinkage and water absorption. Superior passive vibration absorption capability.	Medical grade, very low viscosity bonder for respiratory face masks and needle-bonding. Bonds well to plastics (PVC/PC/PU), glass and metals. Bonding of dissimilar substrates with varying elasticity.	Medical grade, very low viscosity bonder for respiratory face masks and needle-bonding. Bonds to plastics, glass and metals. Bonding of dissimilar substrates with varying elasticity. Fluoresces for quality inspection.	Low viscosity, multi-substrate bonder for most plastics, metal and glass. Ideal for needle/reservoir/catheter/transducer assemblies in the medical industry. Formulated to meet ISO 10993-5. Passes ETO & gamma sterilization.	Medical grade, low viscosity bonder for respiratory face masks and needle-bonding. Bonds well to plastics (PVC/PC/PU), glass and metals. Bonding of dissimilar substrates with varying elasticity.	



Listen · Understand · Solve

LitemaskTM Mask & Gasket Series

Specialty Chemicals

Flag-Ship Products	Litemask TM	Litemask TM	Litemask TM	Litemask TM	Litemask TM	Litemask TM	Litemask TM	Litemask TM	Litemask TM	
Web Highlights	4139VT	4139G	4153	4201	4272	8108	8114	8114T	8114VT	
Type of Bonder	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Strength Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Strength Metal/ Glass/Ceramics	Low Strength Multi- Substrates	Peelable	Peelable	Peelable	
Type of Cure - Product Title	UV/Visible/Heat/Activator Curable High Temperature Burnt-Off Mask	UV/Visible/Heat/Activator Curable High Temperature Burnt-Off Mask	UV/Visible/Heat/Activator Curable Low Shrink (Burnt-Off) Mask	UV/Visible/Heat/Activator Curable Chemical- Resistant Mask	UV/Visible/Heat/Activator Curable Chemical- Resistant Mask	UV/Visible/LED Curable Chemical Etching Surface Protective Mask	UV/Visible/LED Curable Protective Peel-able Temporary Clear Mask	UV/Visible/LED Curable Protective Peel-able Temporary Clear Mask	UV/Visible/LED Curable Protective Peel-able Temporary Clear Mask	
Competitive Products (Products offered with similar properties. Users should test to confirm suitability)	Tangent 6108-VT	Tangent 20101 Tangent 6108-G	Tangent 6108 Tangent 6441 Vitalit 6128 Dymax 6-621	Tangent 20106 Vitalit 6127 Tangent 6127 Dymax 628-LV	Tangent 6442 Dymax 628	Dymax 734-BT	New	New	New	
Surface After Full Cure ² ISTM D189	Tack-Free	Tack-Free	Sleek	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free	
Tack-Free/Full Cure Surface using F200P (6VA 150mW/cm ²); L0000 (UVA 2,800mW/cm ²)	10s / 8s	10s / 8s	10s / 2s	40s / 30s	10s / 2s	40s / 2s	6s / 3s	6s / 3s	6s / 3s	
Glass Fixture Time F200P (UVA 150mW/cm ²)	1s	1s	1s	8s	7s	1s	3s	3s	3s	
Color / Appearance	Single Component, Clear	Single Component, Clear	Single Component, Slightly Translucent	Single Component, Slight Tint	Single Component, Slight Tint	Single Component Slightly Translucent	Single Component, Clear	Single Component, Clear	Single Component, Clear	
Viscosity cP@20rpm ASTM D2556	18,000 - 30,000	> 1,000,000	500 - 900	80 - 180	250 - 550	17,000 - 31,000	800 - 1,200	0	0	
Shore Hardness ASTM D2240	D75 to D85	D75 to D85	D76 to D86	D75 to D85	D78 to D88	D30 to D40	D13 to D23	0	0	
Linear Shrinkage ² ISTM D2566	2.20%	2.20%	0.10%	0.11%	0.02%	0.10%	1.20%	1.80%	1.80%	
Water Absorption ASTM D570	0.50%	0.50%	1.60%	0.60%	0.60%	7.70%	0.60%	0.50%	0.50%	
Tensile Strength (PSI) ASTM D636 ¹ - Substrate Failure ² - PC-PC / SS-SS / S-S / AL-AL	PC-PC	1,000*	1,000*	400	500*	500*	Good	4,000	4,500	4,500
	PC-SS	11,600*	11,600*	9,400*	9,800*	10,500*	Fair	1,900	1,500	1,500
	PC-S	16,000*	16,000*	8,300*	10,000*	13,700*	Fair	2,600	1,800	1,800
	PC-AL	9,800*	9,800*	14,000*	7,400*	10,400*	Good	1,700	1,500	1,500
Elongation at Break ASTM D638	55%	55%	33%	4%	7%	690%	138%	90%	90%	
Temp. Resistance ² ISTM D366	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 160	-55 to 160	
Young's Modulus MPa ASTM D638	130	130	3,618	1,589	7,024	626	51	78	78	
Glass Transition Tg °C ² ISTM D366	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Average Linear CTE ² ISTM D696	88	88	15	91	91	118	119	102	102	
Product Highlights (Functions/Specialty)	Cures with UV/Visible/ Heat or Actif 398. Very good adhesion to metals and glass. Used in aerospace industry for the effective protection of turbine blades against chemicals during cleaning.	Cures with UV/Visible/ Heat or Actif 398. Very good adhesion to metals and glass. Used in aerospace industry for the effective protection of turbine blades against chemicals during cleaning.	Ultra-clear, low viscosity UV/Visible Light/LED/ Activator/Heat-curing, high strength metal-glass mask for protection of surfaces during blasting. Remove by burn-off. Tack-free, used in jewelry industry.	Aerospace Grade. Cures with UV/Visible/Heat or activator (Actif 398). Very low viscosity, high strength metal/glass/ ceramics masking material. Low linear shrinkage, good temperature and moisture resistance.	Aerospace Grade. Cures with UV/Visible/Heat or activator (Actif 398). Very low viscosity, high strength metal/glass/ ceramics masking material. Low linear shrinkage, good temperature and moisture resistance.	High viscosity peel-able mask for protection of metallic and glass components such as engine blades/vanes in chemical etching and sand-blasting.	Medium viscosity, ultra- clean peel-able high temp mask for electronics and aerospace industries. Soft, tough and flexible for surface protection against chemical stains and burnt marks during manufacturing processes.	Medium high viscosity, ultra-clean peel-able high temp mask for electronics and aerospace industries. Soft, tough and flexible for surface protection against chemical stains and burnt marks during manufacturing processes.	Very high viscosity, ultra- clean peel-able high temp mask for electronics and aerospace industries. Soft, tough and flexible for surface protection against chemical stains and burnt marks during manufacturing processes.	



Listen · Understand · Solve

OptikTM Optical Series

Specialty Chemicals

Flag-Ship Products	Optik TM	Optik TM	Optik TM	Optik TM	Optik TM	Optik TM	Optik TM	Optik TM	Optik TM	
Web Highlights	7313	7648	7664	7675	7722	7731	7760	7763	7795	
Type of Bonder	Multi-Substrates (Low Strength Plastics)	High Strength Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	Multi-Substrates (Low Adhesion)	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	
Type of Cure - Product Title	UV/Visible/LED Curable Multi-Substrate Optical Bonder/Sealant	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	UV/Visible/LED Curable Low Stress Encapsulant for Electronics	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	UV/Visible/LED Curable High Strength Metal-Glass Optical Bonder	
Competitive Products (Products offered with similar properties. Users should test to confirm suitability)	Tangent 5140	New	-	Delo OM-614	-	-	-	Dymax 4-20508	-	
Surface After Full Cure #ISTM D189	Tack-Free	Grippy	Sleek	Sleek	Sleek	Sleek	Sleek	Sleek	Sleek	
Tack-Free/Full Cure Surface using F200P (UV-A 150mW/cm ²) / L8000 (UV-A 2,800mW/cm ²)	60s / 4s	6s / 1s	3s / 3s	8s / 6s	15s / 2s	15s / 2s	15s / 2s	15s / 2s	15s / 2s	
Glass Fixture Time F200P (UV-A 150mW/cm ²)	1s	2s	2s	1s	2s	2s	2s	2s	2s	
Color / Appearance	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	
Viscosity cP@20rpm ASTM D2556	600 - 1,000	16,000 - 26,000	2,000 - 4,000	2,300 - 3,700	400 - 700	150 - 350	60 - 120	800 - 1,500	5,000 - 8,000	
Shore Hardness ASTM D2240	D45 to D55	D75 to D85	D83 to D93	D72 to D82	D83 to D93	D83 to D93	D83 to D93	D83 to D93	D82 to D92	
Linear Shrinkage #ISTM D2566	0.30%	0.09%	2.10%	1.10%	0.50%	0.30%	0.30%	1.00%	0.60%	
Water Absorption ASTM D570	1.20%	0.30%	0.40%	0.60%	0.20%	0.20%	0.10%	0.20%	0.30%	
Tensile Strength (PSI) ASTM D638 ^ - Substrate Failure * - PC-PC / SS-SS / S-S / AL-AL	PC-PC	1,800	390*	N.A.	1,300	N.A.	N.A.	N.A.	N.A.	
	PC-SS	4,800	8,900*	10,900*	1,100	10,400*	10,500*	8,700*	10,200*	
	PC-S	4,500	5,900*	6,400*	2,700	8,700*	10,600*	10,100*	7,400*	
	PC-AL	3,100	5,700*	10,900*	2,900	10,000*	8,000*	9,500*	10,800*	
Elongation at Break ASTM D638	430%	76%	18%	32%	11%	7%	11%	17%	24%	
Temp. Resistance #ISTM D366	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	
Young's Modulus MPa ASTM D638	13	89	399	204	668	895	827	393	290	
Glass Transition Tg #C #ISTM D366	N.A.	50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Average Linear CTE #ISTM D696	139	53	Negligible	116	Negligible	Negligible	Negligible	Negligible	Negligible	
Product Highlights (Functions/Specialty)	Optical grade, very low viscosity multi-substrate bonder. Very clear and tough material. Good vibration isolation capability and extremely low shrinkage. Suitable for use as a sealant and gasket material.	Very high strength metal/glass bonder. Passed stringent 1000X TMCL and 1000hr WHTSL, HTSL and LTSL tests. Ideal for bonding applications in optoelectronics industry, such as code-wheels manufacturing.	Medium viscosity active alignment optical bonder. Used in optical/medical devices for bonding of metals, glass and ceramics. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.	Ultra-low stress, clear optical encapsulant for IME (in-mold electronics). Fast curing with good light transmission properties. Enhanced moisture and temperature resistance. Does not attack flexible circuits easily.	Low viscosity active alignment optical bonder. Used in optical/medical devices for bonding of metals, glass and ceramics. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.	Very low viscosity active alignment optical bonder. Used in optical/medical devices for bonding of metals, glass and ceramics. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.	Very low viscosity active alignment optical bonder. Used in optical/medical devices for bonding of metals, glass and ceramics. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.	Very low viscosity active alignment optical bonder. Used in optical/medical devices for bonding of metals, glass and ceramics. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.	Medium-low viscosity active alignment optical bonder. Used in optical/medical devices for bonding of metals, glass and ceramics. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.	Medium high viscosity, superior high strength bonder. Used for bonding of metals, glass and ceramics in electronics/optical/medical devices. Very low shrinkage and water absorption. Ability to withstand stringent thermal cycling.



Quad-Cure™ Series

Specialty Chemicals

Flag-Ship Products	Quad-Cure™	Quad-Cure™	Quad-Cure™	Quad-Cure™	Quad-Cure™	Quad-Cure™	Quad-Cure™	Quad-Cure™	Quad-Cure™	
Web Highlights	8053	8118	9218	9245	9254	9255G	9263	9273	9933	
Type of Bonder	High Performance Metal/ Glass/Ceramics	High Strength Metal/ Glass	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Strength Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Performance Metal/ Glass/Ceramics	High Strength Metal/ Glass/Ceramics	
Type of Cure - Product Title	UV/Visible/Heat Curable Superior Low Shrink Metal Glass Bonder	UV/Visible/Heat/Activator Curable Rapid-Cure Non- Slump Bonder	UV/Visible/Heat/Activator Curable Flexible Metal- Glass Bonder	UV/Visible/Heat/Activator Curable Flexible Metal- Glass Bonder	UV/Visible/Heat/Activator Curable Flexible Metal- Glass Bonder	Multi-cure, Ultra Low Shrinkage Precision Positioning Bonder	UV/Visible/Heat/Activator Curable Flexible Metal- Glass Bonder	UV/Visible/Heat/Activator Curable Flexible Metal- Glass Bonder	Multi-cure, High Performance, Moisture- Resistant Metal-Glass Bonder	
Competitive Products (Products offered with similar properties. Users should test to confirm suitability)	New	MB-5000UV	Dymax 625 Tangent 8HG44	-	3032 (8H-13-20IV)	-	Vitalit 6128	Dymax 625 Tangent 8HG44	Tangent 6108 Tangent 6441	
Surface After Full Cure #ISTM D189	Sleek	Tack-Free	PSA Feel	PSA Feel	PSA Feel	Sleek	PSA Feel	PSA Feel	PSA Feel	
Tack-Free/Full Cure Surface using F200P (1VA, 150mW/cm ²) / L5000 (1VA, 2,800mW/cm ²)	15s / 10s	1s / 1s	10s / 9s	25s / 20s	10s / 9s	10s / 2s	40s / 30s	40s / 30s	15s / 9s	
Glass Fixture Time #200P (1VA, 150mW/cm ²)	2s	1s	7s	7s	7s	1s	8s	8s	1s	
Color / Appearance	Single Component Clear, Slightly Translucent	Single Component, Slightly Translucent	Single Component, Slight Tint	Single Component, Slight Tint	Single Component, Slight Tint	Single Component, Opaque White	Single Component, Slight Tint	Single Component, Slight Tint	Single Component, Clear	
Viscosity cP@20rpm ASTM D2556	900 - 1,900	50,000 - 90,000	16,000 - 25,000	2,500 - 4,800	1,200 - 2,500	> 1,000,000	500 - 1,000	700 - 1,200	400 - 800	
Shore Hardness ASTM D2240	D79 to D89	D57 to D67	D43 to D53	D65 to D75	D66 to D76	D76 to D86	D67 to D77	D40 to D50	D68 to D78	
Linear Shrinkage %ISTM D2566	0.10%	0.80%	0.10%	1.02%	1.02%	0.01%	1.02%	0.10%	2.20%	
Water Absorption ASTM D570	0.80%	1.00%	0.80%	0.70%	0.70%	1.60%	0.70%	0.50%	0.50%	
Tensile Strength (PSI) ASTM D638 ^ - Substrate Failure * - PC-PC / SS-SS / S-S / AL-AL	PC-PC	N.A.	300	1,500	600*	600*	200	600*	1,500	200*
	PC-SS	9,700*	5,300*	8,200*	10,000*	10,500*	7,700*	7,700*	8,200*	9,400*
	PC-S	12,900*	5,400*	8,000*	8,800*	16,000*	6,200*	13,600*	7,900*	9,800*
	PC-AL	8,200*	4,200*	8,000*	6,800*	9,500*	4,000*	6,500*	8,000*	5,700*
Elongation at Break ASTM D638	17%	38%	444%	820%	600%	33%	510%	544%	55%	
Temp. Resistance #ISTM D366	-55 to 155	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	
Young's Modulus MPa ASTM D638	402	698	12	7	8	3,618	7	Not Available	123	
Glass Transition Tg #C #ISTM D366	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Average Linear CTE #ISTM D696	34	138	81	84	81	15	15	15	91	
Product Highlights (Functions/Specialty)	Please request for more information.	Thixotropic, non-slump bonder for precision tacking operation. Rapid- Cure chemistry with UV/ Visible Light/LED/ Activator/Heat cure options.	Cures with UV/Visible/ Heat or Actif 398. Very high strength, high viscosity metal/glass bonder. Low shrinkage and good passive vibration isolation capability. Resistant to moisture and low water absorption.	Cures with UV/Visible/ Heat or Actif 398. Very high strength, high viscosity metal/glass bonder. Low shrinkage and good passive vibration isolation capability. Resistant to moisture and low water absorption.	Cures with UV/Visible/ Heat or Actif 398. Very high strength, medium viscosity metal/glass bonder. Low shrinkage and good passive vibration isolation capability. Resistant to moisture and low water absorption.	Ultra low-shrink gel for used in optical positioning adhesive. UV/ Visible Light/LED/ Activator/Heat-curing, high strength metal-glass bonder for electronics, optics and medical devices.	Cures with UV/Visible/ Heat or Actif 398. Very high strength, low viscosity metal/glass bonder. Low shrinkage and good passive vibration isolation capability. Resistant to moisture and low water absorption.	Cures with UV/Visible/ Heat or Actif 398. Very high strength, high viscosity metal/glass bonder. Low shrinkage and good passive vibration isolation capability. Resistant to moisture and low water absorption.	Cures with UV/Visible/ Heat or Actif 398. Very good clarity, heat and moisture resistance. Low water absorption and good passive vibration isolation capability. Excellent bonding strength for metal-glass applications.	



Listen · Understand · Solve

Uni-SealTM Series

Specialty Chemicals

Flag-Ship Products	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM	Uni-Seal TM
Web Highlights	1822	3203	3339	3368	3368B	3368G	3368GB	3393	3393L
Type of Bonder	Multi-Substrates	Low Strength Multi-Substrates	Very Low Strength Multi-Substrates	Very Low Strength Multi-Substrates	Very Low Strength Multi-Substrates	Very Low Strength Multi-Substrates	Very Low Strength Multi-Substrates	Very Low Strength Multi-Substrates	Very Low Strength Multi-Substrates
Type of Cure - Product Title	UV/Visible/LED Curable Multi-Substrate Bonder/Gasket/Sealant (Hard)	UV/Visible/LED Curable Rapid-Cure Metal-Glass Bonder	UV/Visible/LED Curable Electronics Touchscreen/Gasket/Mask/Seal	UV/Visible/LED Curable Electronics Gasket/Mask/Sealant	UV/Visible/LED Curable Electronics Gasket/Mask/Sealant(Black)	UV/Visible/LED Curable Electronics Gasket/Mask/Sealant	UV/Visible/LED Curable Electronics Gasket/Mask/Sealant(Black)	UV/Visible/LED Curable Gasket/Mask/Sealant for Electronics	UV/Visible/LED Curable Multi-Substrate Medical Gasket Sealant
Competitive Products (Products offered with similar properties. Users should test to confirm suitability)	Delo 4436	Sekisui Photolec A	Tangent 2586G Tangent 8586G	Tangent 2586G Tangent 8586G	Dymax GA-145	Tangent 2586G Tangent 8586G	Dymax GA-145	Tangent 2586 Tangent 8586	Tangent 2586 Tangent 8586
Surface After Full Cure #ISTM D189	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free	Tack-Free
Tack-Free/Full Cure Surface using #200P (UNA 150mW/cm ²) / L3000 (UNA 2,800mW/cm ²)	10s / 1s	1s / 1s	4s / 5s	4s / 5s	4s / 5s	4s / 5s	4s / 5s	4s / 5s	4s / 5s
Glass Fixture Time #200P (UNA 150mW/cm ²)	3s	1s	1s	1s	1s	1s	1s	1s	1s
Color / Appearance	Single Component, Clear Translucent	Single Component, Slightly Translucent	Single Component, Slight Translucent	Single Component, Slight Translucent	Single Component, Translucent Black	Single Component, Slight Translucent	Single Component, Translucent Black	Single Component, Slight Translucent	Single Component, Slight Translucent
Viscosity cP@20rpm ASTM D2556	200 - 500	700 - 1,200	> 1,000,000	20,000 - 36,000	20,000 - 36,000	> 1,000,000	> 1,000,000	400 - 800	400 - 800
Shore Hardness ASTM D2240	A59 to A69	D71 to D81	A27 to A37	A27 to A37	A27 to A37	A27 to A37	A27 to A37	A5 to A15	A5 to A15
Linear Shrinkage %ISTM D2566	1.10%	2.00%	1.50%	1.50%	1.50%	1.50%	1.50%	2.00%	2.00%
Water Absorption ASTM D570	0.60%	0.40%	1.50%	1.50%	1.50%	1.50%	1.50%	0.10%	0.10%
Tensile Strength (PSI) ASTM D638 ^ - Substrate Failure *- PC-PC / SS-SS / S-S / AL-AL	PC-PC	4,900^	800	3,500	3,500	3,500	3,500	3,000	3,000
	PC-SS	2,700	2,900	2,000	2,000	2,000	2,000	1,500	1,500
	PC-S	2,600	4,000	1,300	1,300	1,300	1,300	1,200	1,200
	PC-AL	2,400	2,900	1,500	1,500	1,500	1,500	1,200	1,200
Elongation at Break ASTM D638	250%	13%	400%	400%	400%	400%	400%	374%	374%
Temp. Resistance %ISTM D366	-55 to 150	-55 to 150	-50 to 155	-50 to 155	-50 to 155	-50 to 155	-50 to 155	-50 to 155	-50 to 155
Young's Modulus MPa ASTM D638	30	698	34	34	34	34	34	34	34
Glass Transition Tg °C #ISTM D366	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average Linear CTE #ISTM D696	188	51	103	119	119	119	119	85	85
Product Highlights (Functions/Specialty)	Low viscosity bonder/sealant/gasket. Good adhesion to many substrates. Very low shrinkage and water absorption. Air-tight sealing, superior vibration absorption capability.	Rapid-Cure chemistry. Ultra-clear, low viscosity UV/Visible Light/LED metal-glass bonder. Tack-free and good chemical resistance.	Very thick, low water absorption electronics sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.	Very thick, low water absorption electronics black sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.	Very thick, low water absorption electronics black sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.	Gel, low water absorption electronics black sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.	Gel, low water absorption electronics black sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.	Low viscosity and low water absorption electronics sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.	Low viscosity and low water absorption electronics sealant. Provides air-tight seal with ease of peel for rework. Tough yet elongating. Widely use for automotive and electronics industries for its low CTE properties.



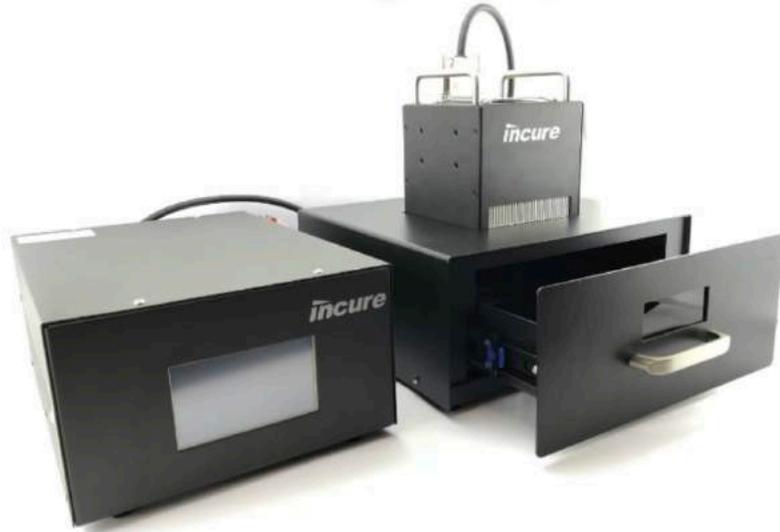
Uni-WeldTM Series

Specialty Chemicals

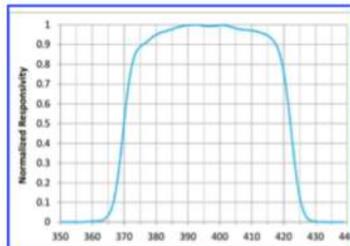
Flag-Ship Products	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM	Uni-Weld TM
Web Highlights	2204	2293	2813	3301	3271	8201	8224	8260	9070
Type of Bonder	High Performance Metal/Glass/Ceramics	High Performance Metal/Glass/Ceramics	High Strength Metal/Glass/Ceramics	Low Strength Multi-Substrates	Multi-Substrates	High Performance Metal/Glass/Ceramics	High Performance Metal/Glass/Ceramics	High Performance Metal/Glass/Ceramics	Multi-Substrates (High Strength Plastics)
Type of Cure - Product Title	UV/Visible Curable High Strength Metal-Glass-Ceramics Bonder	UV/Visible Curable High Strength Metal-Glass-Ceramics Bonder	UV/Visible/LED Curable High Strength Low Shrink Metal-Glass Bonder	UV/Visible/LED Curable Mobile Protective Screen Bonder	UV/Visible/LED Curable Multi-Substrates (Glass) Bonder	High Performance, Very Low Shrink Stained/Laminated Glass Repair	High Performance, Very Low Shrink Stained/Laminated Glass Repair	High Performance, Very Low Shrink Stained/Laminated Glass Repair	UV/Visible/LED Curable Low Shrink Multi-Substrate Superior Bonder
Competitive Products (Products offered with similar properties. Users should test to confirm suitability)	Dymax 426	-	Dymax 1184M	-	-	Tangent 20106 Vitrailit 6127 Tangent 6127 Dymax 628-LV	Tangent 20106 Vitrailit 6127 Tangent 6127 Dymax 628-LV	Tangent 20106 Vitrailit 6127 Tangent 6127 Dymax 628-LV	Tangent 7641
Surface After Full Cure #ISTM D189	Tack-Free	Tack-Free	Tack-Free	Tacky	Tacky	Sleek	Sleek	Sleek	Tacky
Tack-Free/Full Cure Surface using #200P (UV 150mW/cm ²) / L3000 (UV 2,800mW/cm ²)	40s / 2s	40s / 2s	60s / 4s	20s / 1s	20s / 1s	30s / 5s	30s / 5s	30s / 5s	5s / 1s
Glass Fixture Time #200P (UV 150mW/cm ²)	1s	6s	1s	1s	1s	10s	10s	10s	2s
Color / Appearance	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Clear	Single Component, Slight Tint
Viscosity cP@20rpm ASTM D2556	1,000 - 2,000	500 - 900	800 - 1,500	150 - 250	150 - 250	80 - 160	2,000 - 3,000	20 - 75	50 - 150
Shore Hardness ASTM D2240	D69 to D79	D73 to D83	D69 to D79	A3 to A13	A1 to A11	D75 to D85	D75 to D85	D75 to D85	D76 to D86
Linear Shrinkage %ISTM D2566	0.03%	0.01%	0.10%	0.15%	0.15%	0.11%	0.11%	0.11%	0.20%
Water Absorption ASTM D570	0.90%	0.90%	0.80%	1.69%	0.32%	0.60%	0.60%	0.60%	2.50%
Tensile Strength (PSI) ASTM D638 ^ - Substrate Failure * - PC-PC / SS-SS / S-S / AL-AL	PC-PC	N.A.	N.A.	500	1,300	3,100	500*	500*	6,000^
	PC-SS	8,500*	8,500*	8,200*	300	1,400	9,800*	9,800*	3,800
	PC-S	5,900*	5,900*	6,900*	300	1,500	10,000*	10,000*	3,800
	PC-AL	7,800*	7,800*	7,700*	400	1,200	7,400*	7,400*	3,700
Elongation at Break ASTM D638	380%	380%	160%	580%	640%	4%	4%	4%	11%
Temp. Resistance %ISTM D366	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150
Young's Modulus MPa ASTM D638	17	409	41	1	30	1,589	1,589	1,589	656
Glass Transition Tg °C #ISTM D366	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average Linear CTE #ISTM D696	Not Available	Not Available	68	188	188	Not Available	Not Available	Not Available	Not Available
Product Highlights (Functions/Specialty)	Clear and medium viscosity metals/glass/ceramics bonders. Extremely high bonding strength, low shrinkage with enhanced moisture and temperature resistance. Near zero tolerance to movements in precision alignment bonding.	Clear and low viscosity metals/glass/ceramics adhesive. Extremely high bonding strength, low shrinkage with enhanced moisture and temperature resistance. No-dri TM on cure, ideal for precise positioning of optical devices.	Low-medium viscosity metal-glass-ceramics bonders. Extra-ordinarily high bonding strength with very low linear shrinkage and low water absorption with good thermal and moisture resistance.	Low viscosity glass bonders/sealants. High in clarity, cures with low UV intensity. Bonding of tempered glass panels on mobile devices for screen protection. Removal by hand/IPA wipes.	Low viscosity bonders/sealants/gaskets. Good adhesion to many substrates. Very low shrinkage and water absorption. Air-tight sealing, superior passive vibration absorption capability.	Cures with UV/Visible/LED or activator (Actif 398). Low viscosity, high strength metal/glass/ceramics bonders. Use in car windscreen, window and laminated glass repairs.	Cures with UV/Visible/LED or activator (Actif 398). Medium-low viscosity, high strength metal/glass/ceramics bonders. Use in car windscreen, window and laminated glass repairs.	Cures with UV/Visible/LED or activator (Actif 398). Very low viscosity, high strength metal/glass/ceramics bonders. Use in car windscreen, window and laminated glass repairs.	Bonding of various plastic substrates. Low viscosity, transparent clear and cures in seconds. Used in high volume productions. Very good moisture and temperature resistance.



UV Curing Equipment

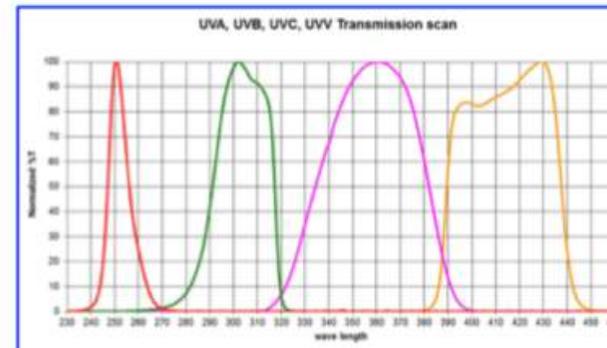


UV Measurement & Control



Left: LED L-395
L395 (370-422 nm)

Right: Broad Band
UVA (320-390nm)
UVB (280-320nm)
UVC (250-260nm)
UVV (395-441nm)



Matching Chemistry

**Matching
Chemistry**



**The Incure
Experience**

What is Chemistry-matching?

- **P**rocess requirements - Manual, semi-auto or fully-auto? Depends on volume.
- **A**dhesive selection - Industry, desired uncured and cured properties.
- **S**ubstrates used - Metal, glass, plastics, ceramics, etc
- **T**est requirements - Bond, potting, sealing or coating performance. Reliability tests (thermal-cycling / EtO / gamma etc).
- **E**quipment - Halogen Arc Lamps or UV LED
 - Spot Lamps or Small Area Curing (up to ø12mm)
 - Flood Lamps for Large Area Curing (up to 150x200mm)
 - Flood or Focused on Conveyor for Very Large Area Curing

Section One Company Profile

- Mission Statement
- Core Competencies

Section Two Advancement in UV Technology

- Wide Offerings & Specialty Chemicals
- UV curing Equipment, Measurement & Control
- Matching Chemistry

Section Three The Incure Experience

- IncureDirectTM
- IncureConsultTM
- IncureCollaborateTM
- IncureLabTM
- IncureRentalTM Program



Five Pillars of Incure Success

IncureDirectTM

Provides an open channel for end-users to work directly with Incure on all applications. Quick and easy access to working solutions for all bonding needs. Minimizes indirect costs associated distribution channels.

IncureConsultTM

Take advantage of direct professional advice from Incure Product Development Consultant.

IncureConsultTM embraces matching-chemistry in 3 simple steps:

- (1) Understanding your application, choice of substrates and test requirements
- (2) Recommending the most suitable adhesive and best-matched UV curing equipment
- (3) Establish a reliable and controlled manufacturing process

IncureCollaborateTM

Faster turn-around for evaluation samples, coupled with enhanced confidentiality for customized solutions.

IncureLabTM

Conduct your design-on-experiment (DOEs) with the use of Incure laboratory facility and equipment at a small fee. Easy access to a wide range of adhesives and coatings, curing lamps and testing equipment for your application needs.

IncureRentalTM

Use of Incure curing equipment on weekly rental basis. Choice of purchase of curing system by offsetting rental charges at the end of trial period.



Who can benefit from Incure Experience Centre (IEC)?

- Product Research & Development
- Design Engineering
- Manufacturing
- Engineering



How can you benefit from Incure Experience Centre (IEC)?

- Tap on the expertise and experience of our Applications Consultants
- Select and match an adhesive product of your choice of substrates
- Know what you are in for when you can have hands-on access to a wide range of UV curing system
- In-house equipment to support full cure test, hardness, elongation and tensile tests, viscosity measurement, strength validation etc.
- DOE at our laboratory for your bonding needs at a nominal fee.
- 24-hr R&D centers work on customized formulations