PRODUCT INFORMATION

	(TYPICAL PROPERTIES)							
	These should not be considered as specific							
PRODUCT	KEY PC2082AB							
	Clear Potting Compound for LED, Solar and Aerospace							
DECODIDITION	KEY PC2082AB is an optica							
DESCRIPTION	exterior LED and Solar applications. KEY PC2082AB aggressively adheres to clear polyce FR-4 and printed circuit boards without the need for a primer. KEY PC2082AB is re-							
	SKYDROL and DEF automotive fluid, and passes ASTM E595 outgassing making it suitable for							
	aerospace applications and high temperature emergency lighting. KEY PC2082AB is UV stable for							
	outdoor applications. KEY PC2082AB features a low viscosity for flowing around intricate circuit board components and a convenient 1:1 by volume ratio for meter-mix equipment and easy to use							
	handheld cartridges.							
	✓ Optically Clear							
ADVANTAGES &	✓ Low Embedment Stress on Electronics							
APPLICATIONS	 Resistant to SKYDROL a UV Stable for Exterior Ap 							
	\checkmark Low Outgassing – Passes ASTM E595							
	✓ 1:1 Mixing by Volume							
PHYSICAL	Calar	KEY PC2082A	KEY PC2082B					
	Color Viscosity @ 77°F (25°C)	Clear – Water White 3,000 cPs	Clear – Slight Straw 400 cPs	Clear – Water White 1,700 cPs				
PROPERTIES	Brookfield RVT	#4 @ 20 rpm	#4 @ 20 rpm	#4 @ 20 rpm				
	Specific Gravity	1.16	1.08	1.12				
	Density (lbs/gal)	9.7	9.0	9.3				
CURED	Ultimate Hardness75 Shore AOperating Temperature Range-40°C to 100°C (-40°F to 212°F)							
PROPERTIES	KEY PC2082AB discolors with prolonged exposure above 100°C							
CHEMICAL		1000 Hour Immersion Study (72°F)		Hardness Retention				
RESISTANCE	SKYDROL LD-4		4.6%	94.6%				
	Diesel Exhaust Fluid (DE	F)	0.7%	100%				
CURE SCHEDULE	Gel Time (100g)	30 minutes at 25°C (7	′7°F)					
	Hard Cure	4 hours at 25°C (77°F	-)					
	Full Cure Within 48 hours							
	Accelerated Cure		0°F-175°C) heat cures	can accelerate cure				
INSTRUCTIONS	MIX RATIO By KEY PC2082 Part A	109 A	VOLUME 1 A					
FOR USE	KEY PC2082 Part B	109 A 100 B	1 B					
	Combine Part A and B and mix thoroughly, being careful to limit entrapped air during mixing.							
	Scrape sides, walls and bottom of container. Pour material into part and cure.							
	Bulk meter-mix dispensing ma		<u> </u>	free mixing.				
SAFETY &	Avoid all contact with skin, ey			handling.				
HANDLING				_				
SHELF LIFE &	KEY PC2082A		from Date of Manufac	· · · · ·				
STORAGE	KEY PC2082B		from Date of Manufac	· · · · · ·				
For Unopened,	KEY PC2082AB Cartridges12 Months from Date of Manufacture (-18°C to 35°C)							
Factory Sealed								
Containers.								



All sales subject to terms & DCO 4816 conditions on reverse side.

SPECIALTY CHEMICAL COMPOUNDS 17 Shepard Street, Lawrence, MA 01843-1023 = 978/683-9411 = FAX 978/686-7729

PRODUCT INFORMATION

KEY PC2082AB

(TYPICAL PROPERTIES) These should not be considered as specifications.

PRODUCT

Clear Potting Compound for LED, Solar and Aerospace

CURED			1					
METALLIC ADHESION		ASTM	Temperature	Value				
PROPERTIES								
(Typical) Page 2	Co = Cohesive Bond Mode Ad = Adhesive Bond Mod							
	Aluminum Bare	D1002	25°C (77°F)	450 psi [Ad]				
	Steel Bare	D1002	25°C (77°F)	450 psi [Ad]				
	Stainless Steel 304	D1002	25°C (77°F)	360 psi [Ad]				
	Brass Alloy 360	D1002	25°C (77°F)	220 psi [Ad]				
	Galvanized Steel	D1002	25°C (77°F)	460 psi [Ad]				
	Copper Alloy 110	D1002	25°C (77°F)	600 psi [Co]				
	Circuit Board	ASTM	Temperature	Value				
	Tensile Lap Shear Strength, 1" x 4" Adherands, 1 inch overlap							
	Co = Cohesive Bond Mode Ad = Adhesive Bond Mode							
	FR-4	D3163	25°C (77°F)	825 psi [Co]				
	THERMOPLASTIC ADHESION	ASTM	Temperature	Value				
	Tensile Lap Shear Strength, 1" x 4" Adherands, 1 inch overlap							
	Co = Cohesive Bond Mode Ad = Adhesive Bond Mode							
	Acrylic	D3163	25°C (77°F)	270 psi [Ad]				
	Acrylic / PVC	D3163	25°C (77°F)	570 psi [Co]				
	PVC - Polyvinyl Chloride	D3163	25°C (77°F)	650 psi [Co]				
	CPVC - Chlorinated PVC	D3163	25°C (77°F)	975 psi [Co]				
	ABS	D3163	25°C (77°F)	430 psi [Ad]				
	Acrylonitrile Butadiene Styrene	03103						
	PETG Polyethylene	D3163	25°C (77°F)	750 psi [Co]				
	Terephthalate							
	Polycarbonate	D3163	25°C (77°F)	445 psi [Co]				
	Nylon 6/6 - Polyamide	D3163	25°C (77°F)	215 psi [Ad]				
	Polypropylene	D3163	25°C (77°F)	40 psi [Ad]				
	Polyethylene LDPE	D3163	25°C (77°F)	20 psi [Ad]				
	Polyethylene HDPE	D3163	25°C (77°F)	40 psi [Ad]				
	Noryl	D3163	25°C (77°F)	280 psi [Ad]				
	Polyphenylene Oxide/Polystyrene							
	Ultem - Polyetherimide	D3163	25°C (77°F)	360 psi [Ad]				



All sales subject to terms & conditions on reverse side.

SPECIALTY CHEMICAL COMPOUNDS 17 Shepard Street, Lawrence, MA 01843-1023 = 978/683-9411 = FAX 978/686-7729

PRODUCT INFORMATION

PRODUCT	KEY PC2 Clear Potting C		B	ould not be conside	YPICAL PROPERTIES) ered as specifications.
CURED	Electrical Properties		ASTM	Temperature	Value
PROPERTIES	Dielectric Strength	,	D149	25°C (77°F)	360 Volts/mil
(Typical) Page 3	Volume Resistivity		D257	25°C (77°F)	5.9 x 10 ¹³ Ω-cm
(i)picaly i age c	Dielectric Constant	1 MHz	D150	25°C (77°F)	3.57
	Dissipation Factor	1 MHz	D150	25°C (77°F)	0.08
	Thermal Properties		ASTM	Condition	Value
	Thermal Conductivity		E1461	25°C (77°F)	.100 W/m°K
	Coefficient of Thermal Expansion Mechanical Properties		E831	-50°C to 150°C	185.6 ppm/°C
			ASTM	Condition	Value
	Tensile Strength		D412	25°C (77°F)	660 psi
	Elongation at Break		D412	25°C (77°F)	70%
	Hardness vs RT Cure	1 Hour	D2240	25°C (77°F)	35 A
	100 gram mass	2 Hours	D2240	25°C (77°F)	40 A
		4 Hours	D2240	25°C (77°F)	60 A
		8 Hours	D2240	25°C (77°F)	65 A
		12 Hours	D2240	25°C (77°F)	68 A
		1 Day	D2240	25°C (77°F)	70 A



All sales subject to terms & conditions on reverse side.

SPECIALTY CHEMICAL COMPOUNDS 17 Shepard Street, Lawrence, MA 01843-1023 = 978/683-9411 = FAX 978/686-7729

KEY POLYMER CONDITIONS OF SALE

Key Polymer does not accept any terms or conditions of sale or make any warranties, expressed or implied, other than those contained in this Statement or in any existing written contract between the seller and buyer covering Key Polymer Corporation Products.

USERS RESPONSIBILITY:

Key Polymer product usage suggestions, bulletins and manuals cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined if or where additional precautions or procedures may be necessary. All health and safety information contained in Key Polymer's Material Safety Data Sheets for the products being used should be provided to all employees with exposure to the product. It is the responsibility of the user to provide this information in this manner and to use the information to develop appropriate work practice guidelines and employee instructional programs.

ORDER ACCEPTANCE:

Orders are accepted upon the understanding that seller is not obligated to make delivery by any specified date nor liable for damage due to delay or failure in filling order caused by contingencies beyond its control. If delivery dates are specified, they are estimates only and not guaranteed. In the event of unreasonable delay in filling order, buyer may cancel same on written notice to seller, provided said order is not then in process of manufacture.

EXCISE TAXES:

The amount of excise taxes on the production, sale, delivery or transportation of material covered hereby shall be paid by the buyer.

DISCLAIMER OF LIABILITY:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

Buyer shall make an examination both as to quantity and quality of any material delivered hereunder immediately upon receipt and failure of buyer to give notice of any claims within 15 days after receipt of such material shall be an unqualified acceptance of such material and a waiver by buyer of all claims with respect hereto.

LIABILITY LIMITATION:

Buyer assumes all risk and liability for the results obtained by the use of any material delivered by Key Polymer in the manufacturing processes of buyer or in combination with other substances in manufacturing and repair processes of buyer or in combination with other substances. No claim of any kind, whether as to material delivered or for non-delivery of material, shall be greater in amount than the purchase price of this material in respect of which such claim is made.

KEY POLYMER CORP. LAWRENCE, MA 01843

REV AB DCO 3383