PRODUCT INFORMATION

				These	e should	<i>(T</i> not be conside	YPICAL PROPERTIES) ered as specifications.
PRODUCT	KEY PC2	0	72AE	BC	lea	r Tou	gh-Seal
	Clear Seala	Ш	, TOT LL	:D	Lignt	ing	
DESCRIPTION	KEY PC2072AB is an optically clear potting compound and sealant that is ideal for LED applications. KEY PC2072AB aggressively adheres to clear polycarbonate substrates without the need of a primer and KEY PC2072AB is UV stable for outdoor lighting applications. KEY PC2072AB is a low viscosity system, which allows it to flow into and seal intricate electronic parts. Once cured, KEY PC2072AB forms an elastomeric barrier that protects electronic components from exposure over a wide temperature.						
ADVANTAGES &	✓ Aggressive adhesic	on to	clear polyca	rbonat	e		
APPLICATIONS	 ✓ Optically clear ✓ Low Embedment S 	troce	s on Electron	ice I o	w Shrink	200	
	 ✓ Low Embedment Stress on Electronics, Low Shrinkage ✓ Low Viscosity 						
PHYSICAL			PC2072	2 A	P	С2072В	MIX
PROPERTIES	Color		Clear	Clear		Clear	Clear
(Typical)	Viscosity at 25°C Brookfield P	vт	3,000 CP		#1	400 CP	1500 CP #4 @ 20 rpm
(Typical)	Specific Gravity	VI	1.16		# 7	1.08	1.12
	Density (lbs/gal)		9.7			9.0	9.3
CURED	Property	AS	TM		Temp	erature	Value
PROPERTIES	Elongation at Break	D63	<u>38</u> 240		25°C	C (77°F)	68%
(Typical)	Comprehensive electric	cal &	thermal me	chanic	al proper	ties are listed	on following pages.
	Gel Time (100g):				60 minut	es at 25°C (7	7°F)
	Hard Cure				Overnigh	nt at 25°C (77°	°F)
	Full Cure				24 hours		000 (1 F00F)
	Accelerated Cure		WETCHT		Yes, Mild	Heating to 60	D°C (158°F)
INSTRUCTIONS	KEY PC2072A			VO			
FOR USE	KEY PC2072B		100 R	-	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.						
SAEETV &	PI FASE READ MA			FTY			ORF USING
HANDI ING	Avoid all contact with s	skin,	eyes, clothin	g and	food. Wa	ash thoroughly	after handling.
SHELE I TEE &	KEY PC2072A		6 Month	s from	Date of	Manufacture (15°C to 35°C)
STODACE TNEO	KEY PC2072B6 Months from Date of Manufacture (15°C to 35°C)						
For Unonened Eastern	KEY PC2072AB Cartridges 3 Months from Date of Shipment (15°C to 35°C)						
Sealed Containers							DCO 4202 AB



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PRODUCT INFORMATION

PRODUCT	KEY PC2072 Clear Sealant for	These st AB Clo LED Li	(7 nould not be conside ear Tou ghting	<i>YPICAL PROPERTIES)</i> ered as specifications. gh-Seal
CURED	Electrical Dranautica	ACTM	Tommorphumo	Value
PROPERTIES	Dielectrical Properties			250 Volte/mil
(Tunical) Daga 2	Volumo Posistivity	D149	25 C (77 F)	$1.1 \times 10^{13} \text{ C cm}$
(Typical) Page 2	Dielectric Constant 1 MH	D237	25 C (77 F)	1.1 X 10 · 12-011
	Dissipation Eactor 1 MH	D150	25°C (77°F)	0.102
	Thermal Properties			Value
	Heat Capacity Cp	E1461	25°C (77°F)	056 1/g°K
	Thermal Conductivity	E1461	25°C (77°F)	100 W/mºK
	Coefficient of Thermal Expansion	F831	-60°C to 150°C	173 ppm/°C
	Mechanical Properties	ASTM	Condition	Value
	Tensile Strength	D638	25°C (77°F)	540 psi
	Elongation at Break	D638	25°C (77°F)	68%
	Hardness vs RT Cure 1 Hou	r D2240	25°C (77°F)	0 A
	2 Hours	5 D2240	25°C (77°F)	0 A
	4 Hours	5 D2240	25°C (77°F)	45 A
	8 Hours	5 D2240	25°C (77°F)	55 A
	12 Hours	5 D2240	25°C (77°F)	56 A
	1 Day	/ D2240	25°C (77°F)	59 A
				1



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PRODUCT INFORMATION

Clear Sealant for LED Lighting

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

PRODUCT

CURED

KOPER	(TES	
Tvnical)	Page 3	

METALLIC ADHESION	ASTM	Temperature	Value			
Tensile Lap Shear Strength, 1" x 4" Adherands, 1 inch overlap						
Co =	= Cohesive Bor	nd Mode Ad = A	dhesive Bond Mode			
Aluminum Bare	D1002	25°C (77°F)	380 psi [Co]			
Steel Bare	D1002	25°C (77°F)	215 psi [Ad]			
Stainless Steel 304	D1002	25°C (77°F)	670 psi [Co]			
Brass Alloy 360	D1002	25°C (77°F)	320 psi [Ad]			
Galvanized Steel	D1002	25°C (77°F)	505 psi [Co]			
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)	1255 psi [Co]			
THERMOPLASTIC ADHESION	ASTM	Temperature	Value			
Tensile L	ap Shear Strer	ngth, 1" x 4" Adhera	ands, 1 inch overlap			
Co =	= Cohesive Bor	nd Mode $Ad = A$	dhesive Bond Mode			
Acrylic	D3163	25°C (77°F)	60 psi [Ad]			
Acrylic / PVC	D3163	25°C (77°F)	290 psi [Co]			
PVC - Polyvinyl Chloride	D3163	25°C (77°F)	470 psi [Co]			
CPVC - Chlorinated PVC	D3163	25°C (77°F)	680 psi [Co]			
ABS Acrylonitrile Butadiene Styrene	D3163	25°C (77°F)	240 psi [Ad]			
PETG Polyethylene Terephthalate	D3163	25°C (77°F)	480 psi [Co]			
Polycarbonate	D3163	25°C (77°F)	750 psi [Co]			
Nylon 6/6 - Polyamide	D3163	25°C (77°F)	100 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)	50 psi [Ad]			
Teflon PTFE Polytetrafluoroethylene	D3163	25°C (77°F)	30 psi [Ad]			
Noryl Polyphenylene Oxide/Polystyrene	D3163	25°C (77°F)	320 psi [Co]			
Ultem - Polvetherimide	D3163	25°C (77°F)	300 psi [Co]			

KEY PC2072AB Clear Tough-Seal



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