

LONG WORKING TIME ~ LOW VISCOSITY

	LONG WORLD II	KEY PC8060A/E
Иeс	chanical Properties	60
Ten	sile Strength per ASTM D638, 25°C, PSI	485
Elongation per ASTM D638, Type I, 0.125 in, 25°C		109%
Ten	sile Lap Shear Strength - per ASTM D1002, 25°C, psi *	
METALIGS	Aluminum Bare	407 Co
	Steel Bare	297 Co
	Steel Ground	248 Co
	Primed Steel	N/A
	Galvanized Steel	248 Co
	Tin Plated Steel	N/A
	Chrome Plated Steel	N/A
Ten	sile Lap Shear Strength - per ASTM D3163, 25°C, psi **	
	FRP - Polyester Fiberglass	N/A
_	Garolite G-9 Melamine/Glass	N/A
FP	Garolite G-10 Epoxy/Glass	N/A
	Garolite XX Phenolic/Paper	N/A
Ten	sile Lap Shear Strength - per ASTM D3163, 25°C, psi **	
	Acrylic	291 Co
	Acrylic/PVC	N/A
	PVC - Polyvinyl Chloride	393 Co
	CPVC - Chlorinated PVC	N/A
2	ABS - Acylonitrile Butadiene Styrene	286 Co
LAS	PETG – Polyethylene Terephthalate	N/A
40P	Lexan - Polycarbonate	220 Co
THERMOPLASTIC	Nylon 6/6 - Polyamide	311 Co
	Polypropylene	N/A
	Polyethylene LDPE	18 Ad
	Polyethylene HDPE	54 Ad
	Teflon PTFE - Polytetrafluoroethylene	4 Ad
	Noryl – Polyphenylene Oxide/Polystyrene	380 Ad
	Ultem Polyetherimide	335 Co



TOUGH-SEAL PC ULTRA

KEY PC8060A/B

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↑ Electrical & Thermal Properti	es		60		
Dielectric Strength, 25°C, Volts/mi	Dielectric Strength, 25°C, Volts/mil				
Volume Resistivity, 25°C, Ohm-cm	Volume Resistivity, 25°C, Ohm-cm x (10)12				
Dielectric Constant, 25°C - 1 MHz	Dielectric Constant, 25°C – 1 MHz				
Dielectric Constant, 25°C - 1 kHz	Dielectric Constant, 25°C – 1 kHz				
Dielectric Constant, 25°C - 60 Hz	Dielectric Constant, 25°C – 60 Hz				
Dissipation Factor, 25°C - 1 MHz	Dissipation Factor, 25°C – 1 MHz				
Dissipation Factor , 25°C - 1 kHz	Dissipation Factor, 25°C - 1 kHz				
Dissipation Factor, 25°C - 60 Hz	Dissipation Factor, 25°C - 60 Hz				
Heat Capacity Cp, 25°C, J/g°K	Heat Capacity Cp, 25°C, J/g°K				
Thermal Conductivity, 25°C, W/m ^o	Thermal Conductivity, 25°C, W/m°K				
Coefficient of Thermal Expansion,	ppm/°C	ppm/°F			
(-) 65°C to 75°C	191	(-) 85°F to 167°F	106		
75°C to 100°C	191	167°F to 212°F	106		
100°C to 150°C	191	212°F to 302°F	106		
→ Hardness vs Temperature	Hardness vs Temperature				
(-75°C / -103°F)	(-75°C / -103°F)				
(-25°C / -13°F)	(-25°C / -13°F)				
5°C / 41°F	5°C / 41°F				
25°C / 77°F	25°C / 77°F				
50°C / 122°F	57A				
66°C / 150°F	56A				
80°C / 176°F	47A				
100°C / 212°F	44A				
120°C / 248°F	40A				
150°C / 302°F			39A		
↑ Hardness vs Ambient Cure Ti	60				
1 Hour	1 Hour				
2 Hours	2 Hours				
4 Hours	4 Hours				
8 Hours	8 Hours				
12 Hours	12 Hours				
1 Day	1 Day				
2 Days	2 Days				
3 Hours	3 Hours				
4 Hours			63A		
1 Week			66A		
1 Month	N/A				



LONG WORKING TIME ~ LOW VISCOSITY KEY PC8060A/B

DESCRIPTION

TOUGH-SEAL™ ULTRA 60 is a tough and durable longer working time low viscosity potting compound and sealant that flows like maple syrup around electrical components to ensure complete coverage of your entire PCB or electronic assembly. Bulldog tough, TOUGH-SEAL™ ULTRA, can endure over 2000 hours of rigorous reliability testing at 85C/85%, without any signs of degradation or change in hardness, making it an excellent choice for endless electronics applications The new extended shelf-life TOUGH-SEAL™ 60 ULTRA is RoHS, REACH and Prop 65 Compliant.

CHARACTERISTICS

- Low Exotherm, Low Shrinkage, Non-Cracking
- Polycarbonate Compatible
- Endures +2000 hours of rigorous reliability testing at 85C/85% RH
- Thermal Cycling -40C to 150C

Physical Properties	60
Color, Part A	Black
Viscosity at 25°C, cP, Part A, (RVT #5, 20 RPM)	3,800
Specific Gravityat 25°C, Part A	1.07
Color, Part B	Amber
Viscosity at 25°C, cP, Part B, (RVT #5, 20 RPM)	1,300
Specific Gravity at 25°C, Part B	1.00
Density at 25°C, Ibs/gal, Part B	8.35
Color, Mix	Black
Viscosity at 25°C, cP, Mix, (RVT #5, 20 RPM)	3000
Specific Gravity at 25°C, Mix	1.05
Density at 25°C, lbs/gal, Mix	8.76
Mix Ratio by Volume	2A to 1B
Mix Ratio by Weight	100A to 46.8B
Gel Time at 25°C, Minutes, 100 grams	60
Shelf Life, Ambient, Part A Bulk (15°C to 35°C)	12 Months
Shelf Life, Ambient, Part B Bulk (15°C to 35°C)	12 Months
Shelf Life, Cold, Part A Bulk (-18°C to 3°C)	12 Months
Shelf Life, Cold, Part B Bulk (-18°C to 3°C)	12 Months

- ➤ Electrical & Thermal Properties
- ➤ Hardness vs Temperature
- ➤ Hardness vs Ambient Cure Time
- ✓ Mechanical Properties

