

9347 - 193 Street, Surrey, B.C. V4N 4E7 Canada

Phone: (604) 888-3084 Toll Free: 1-800-201-8822 Fax: (604) 888-7754 Toll Free: 1-800-708-9888

ISO 9001 Registered Quality System QMI Certificate # 004008 Burlington, Ontario, Canada



For high voltage applications

Protects sensitive electronic components from impact, shock, vibration, heat, conductivity, moisture, chemicals. Allows visiual inspection.

Features

- Non-porous, water and chemical resistant
- Extremely impact resistant (contains a form of nylon)
- Affords total security, once cast it can not be removed
- Excellent machining properties
- Non-conductive, an electrical insulator
- Low toxicity
- Suitable for explosion proof components (spark arresting)
- Easy and simple to mix
- Long pot life
- Can be cured in one hour at 65°C (150°F)
- This product is RoHS compliant



Specifications:

Uncured Properties - Resin [Part A]						
Viscosity		2,500 cps				
Specific Gravity		1.1273				
Color		Clear (yellow tint), colorless				
Uncured Properties - Hardener [Part B]						
Viscosity		11,000 cps				
Specific Gravity		0.9564				
Color		Clear, amber tint				
Cured Properties - Physical						
Mixed <u>Viscosity</u>		3,300 cps				
Mixed Specific Gravity		1.0577				
Volume Mix Ratio (resin: hardener)		2.0:1				
Mass Mix Ratio (resin: hardener)		2.3:1				
Working time (100g)		60 minutes				
Tensile / Elongation	ASTM D 638	3276 psi / 6.4% elongation				
Compression Strength/modulus	ASTM D 695	8971 psi / 315000 psi				
Flexural strength/modulus	ASTM D 790	5549 psi / 370,000 psi				
Izod impact strength	ASTM D 256	0.700 ft-lbs / inch notch, 0.214" thickness				

Disclaimer:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. M.G. Chemicals Ltd. Does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.



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Shore <u>Hardness</u>	ASTM D 2240	85 (initial) - 85 (10 s	ec) averages	
Coefficient of Thermal Expansion	ASTM E 831	0.036" / 10 " @ 32°F	, 0.020"/10" @72°F	
Lap shear strength	ASTM 1002	702 psi		
Curing Time (100g)				
@ room temp.		24 hours		
@ 65°C		60 minutes		
@ 80°C		45 minutes		
@ 100°C		35 minutes		
Cured Properties - Temperature				
Constant Service Temperature	140°C (284°F)			
Intermediate Service Temperature	145°C (293°F)			
Heat deflection temp. 264 psi	ASTM D 648	43.548°C (92.22°F)		
Cured Properties - Electrical				
Volume Resistivity (ASTM D257)	1.22 x 10 ¹⁶ ohm · cm			
Surface Resistivity (ASTM D257)	5.50 x 10^{15} ohm \cdot cm			
Dielectric Constant (ASTM D150)	3.23 @ 60Hz 3.19 @ 10 ³ Hz 2.99 @ 10 ⁶ Hz			
Dielectric strength (0.114"thk)	ASTM D 149	425 V / mil, 60 Hz		
Insulative	Yes			
Conductive	No			
Chemical and Solvent Resistance				
	Change after 3 days	Change after 45 days		
Hydrocloric Acid	< 0%	< 1 %		
Isopropyl Alcohol	< 0.3 %	< 1 %		
Ethyl Lactate	< 3 %	< 7 %		
Acetone	< 7%	destroyed		
Xylene	< 2%	< 9 %		
Iso hexanes	< 5 %	< 8 %		
Mineral spirits	< 0.3 %	< 0.3 %		

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QMI Certificate # 004008

ISO 9001 Registered Quality System 832C - Peak Exotherm 120 100 80 Peak Exotherm (Temp. in 0°C) 60 40 20 0 100 200 300 400 500 600 0 Sample size (grams)

Sample Size (grams)	Peak Exotherm (Temp. in 0°C)	Time in Minutes
50	44	155
100	63	110
500	110	65

Available Sizes

Catalog Number	Sizes Available	Description
832C-375ML	375 ml (12 oz.)	Liquid
832C-3L	3 L (0.8 gallon)	Liquid
832C-60L	60 L (16 gallons)	Liquid

Usage Instructions:

- 1. Individually stir Part A and Part B.
- 2. Thoroughly mix 2 parts of A to 1 part of B by volume.
- 3. Let stand for 30 minutes to allow air that has been mixed in to release. Gently stir once more to remove any foam that has accumulated on top.
- 4. Pour directly onto the surface to be encapsulated.
- 5. Let stand for 24 hours or for best results, heat cure at $65^{\circ}C$ (149°F) for 1 hours.

Storage conditions:

Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

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