

URC7400

Electronic Potting & Encapsulation

Version June 2018



URASEAL, INC.

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Certificate No. C2018-01847

Product Description:

URC7400 is a low durometer, translucent, polyurethane compound suitable for encapsulating, bonding and casting. Its low compression set and excellent fungus resistance along with its high percent elongation and tensile strength make it ideal for use in applications that require these properties. The translucent nature of the material allows the technician to see that the optical fibers are in place and completely encapsulated. The low exotherm and low shrinkage prevent stress on the fibers which can lead to micro bends and cracking. URC7400 also has the added benefit of being ROHS and REACH compliant.

Directions for Use: (Packed in 195.0 gram tube.)

Do not remove tube from protective bag until ready to use. For best results dispense @ 70 °F. Material set-up time will vary depending on humidity and temperature. Material must be dispensed immediately after mixing.

1. With the tube still in the clear bag, hold tube with heat-sealed end pointed away from you.
2. Flip white barrier with your thumb and forefinger.
3. Shake with an up and down motion for 3 minutes @ 50-65 °F, 1 minute @ 66-85 °F or 30 seconds @ 86-100 °F.
4. Apply/use material immediately.

Caution: Avoid skin contact with enclosed liquids. Wear protective clothing, eye protection and gloves. Use in areas with adequate ventilation. This system contains MDI and other MDI mixed isomers - CAS#101-68-8. Consult MSDS for complete details.

Physical Properties

	Color	Viscosities @ 77 °F	Specific Gravity	Ratio @ 1.05 Index
Part A	Light Yellow Liquid	600 +/- 50 cps	1.19	1.0
Part B	Colorless/ Translucent	700 +/- 100 cps	1.02	3.0
Mixed*	Light Translucent/ Yellow	725 +/- 50 cps	NA	NA

* Mix Ratio of 1 Part A / Isocyanate to 3 Parts B / Polyol blend.

Please contact Uraseal, Inc. Quality Dept. for assistance and recommendations on specifications for this product.



Made in USA

URC7400

Polyurethane Potting / Encapsulating

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Cured Properties	
Test/Specification	Results
Shore A Hardness (@ 10 Second Dwell Time) (ASTM D2240)	50+/- 5
Average Tear (lb. force/inch) (ASTM D624-Die C)	137.00
Average Tensile (psi) (ASTM D412-Die C)	1194.00
Average % Elongation (ASTM D412-Die C)	1178.00
Compression Set (ASTM D395-Method B @ 24 hr. release)	10.50
Hydrolytic Stability Results (@ 212 °F) (ASTM D570/7.5)	% wt. gain: 2.38/hardness loss: 0.00
Average Water Absorption (@ 77 °F) (ASTM D570/7.4)	% wt. gain: 2.52/hardness loss: 10.00
Average Dry Heat Aging (@ 212 °F) (ASTM D573)	% wt. loss: 0.61/hardness loss: 22.50
Fungus Resistance (ASTM G21)	0 growth @ 28 days

Theoretical Gel Time Data for URC7400 in a 195.0 gram tube @ 77 °F		
Ambient Temperature	Mix Time	Gel Time from Start of Mix
> 35 °C (95 °F)	Not Recommended	
35 °C (95 °F)	30 seconds	4 minutes
30 °C (86 °F)	45 seconds	6 minutes
25 °C (77 °F)	60 seconds	8 minutes
20 °C (68 °F)	75 seconds	12 minutes
15 °C (59 °F)	90 seconds	16 minutes
10 °C (50 °F)	105 seconds	24 minutes
05 °C (41 °F)	120 seconds	32 minutes

Note: The user will determine the suitability for use of this product. The recommendations / data given above are based on information we believe to be accurate. They are intended to be used only as a guide for selection for end-use evaluation and do not constitute a product specification. Uraseal cannot assume responsibility for results obtained by use of this product as we have no control over end-use applications or handling. Therefore, we specifically disclaim any damage or loss of any kind in relation to the use of this product.



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