

# CONATHANE POLYURETHANE UNFILLED SYSTEMS

	EN-14 <sup>94</sup>	EN-21 <sup>94</sup>	EN-22400
<b>UL Recognition</b>	RTI 120°C UL 94 V-2	RTI 120°C UL 94 HB	
<b>Typical Handling Properties</b>			
Mix Ratio by Weight, Part A/Part B	100 / 90	100 / 116	100 / 80
Mix Ratio by Volume, Part A/Part B	1 / 1	100 / 137	100 / 94
Mixed Viscosity, @ 25°C, cps	1,500	2,000	3,000
Work life @ 25°C, (1 lb. Mass)	15 min.	40 min.	25 min.
Cure Schedule: @ 25°C	7-10 days	7 days	7 days
@ 80°C	16 hrs.	16 hrs.	16 hrs.
<b>Typical Physical Properties - Cured System</b>			
Color	Opaque Amber or Black	Clear Amber	Clear Amber
Specific Gravity	1.04	1.07	1.07
Shore A Hardness (±5)	65	80	55
Tensile Strength, psi	600	2,000	545
Tear Strength, pli	35	119	19
Elongation, %	140	155	84
Water Absorption, %, 24 Hrs/30 Days	24hrs - 0.40	0.07 / 0.16	0.49 / 0.74
Linear Shrinkage, %	1.15	1.4	
Thermal Shock, -70°C to +130°C (10 cycles)	Passes	Passes (-65 to 130°C)	Passes (-65 to 130°C)
Fungus Resistance	Non-Nutrient	Non-Nutrient	Non-Nutrient
<b>Typical Electrical Properties - Cured System</b>			
Dielectric Strength, VPM 1/16" @ 25°C	584	650	500
Dielectric Constant @ 100 Hz - @ 25°C	5.71	3.4 at @ 25°C	6.8 at @ 25°C
@ 1 MHz - @ 25°C	3.42		3.3 at @ 25°C
Dissipation Factor @ 100 Hz - @ 25°C	0.123	0.017 @ 1Khz @ 25°C	0.133 @ 1Khz @ 25°C
@ 1 MHz - @ 25°C	0.038		
Volume Resistivity, ohm-cm - @ 25°C / @ 130° C	3 x 10 <sup>13</sup> @ 25°C	7.2 x 10 <sup>14</sup> / 1.8 x 10 <sup>11</sup>	4.1 x 10 <sup>11</sup> @25°C
Insulation Resistance; ohms - @ 25°C		>2.5 x 10 <sup>13</sup>	>2.5 x 10 <sup>13</sup>