

# AMI-7001 Anion Exchange Membranes | Technical Specifications

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Technical Specification	AMI-7001S Single Sheet	AMI-7001CRX Continuous Roll
<b>Functionality</b>	Strong Base Anion Exchange Membrane	
<b>Polymer Structure</b>	Gel polystyrene cross linked with divinylbenzene	
<b>Functional Group</b>	Quaternary Ammonium	
<b>Ionic Form as Shipped</b>	Chloride	
<b>Color</b>	Off-White/Beige	
<b>Standard Size</b> <b>US</b> <b>Metric</b>	48in x 120in 1.22m x 3.05m	48in x 120ft 1.22m x 36.58m
<b>Standard Thickness</b> <b>(mils)</b> <b>(mm)</b>	18±1 0.45±0.025	24±1 0.60±0.025
<b>Electrical Resistance (Ohm.cm<sup>2</sup>)</b> <b>0.5 mol/L NaCl</b>	<40	<40
<b>Maximum Current Density</b> <b>(Ampere/m<sup>2</sup>)</b>	<500	<500
<b>Permselectivity (%)</b> <b>0.1 mol KCl/kg / 0.5 mol KCl/kg</b>	90	90
<b>Total Exchange Capacity (meq/g)</b>	1.3±0.1	1.3±0.1
<b>Water Permeability</b> <b>(ml/hr/ft<sup>2</sup>) @5psi</b>	<3	<25
<b>Mullen Burst Test strength (psi)</b>	>80	>80
<b>Thermal Stability (°C)</b>	90	90
<b>Chemical Stability Range (pH)</b>	1-10	1-10
<b>Preconditioning Procedure</b>	Immerse the membrane in either the application solution or a 5% NaCl solution for 12 hours to allow for membrane hydration and expansion.	

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<b>Storage</b>	Store at room temperature and low humidity in sealed air tight container. Storage period not to exceed one year.		

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