



**SELECT COMMERCIALY AVAILABLE ION EXCHANGE MEMBRANE PROPERTIES**

Name	RALEX® <sup>1</sup> AMH-PES	RALEX® <sup>1</sup> CMH-PES	RALEX® <sup>1</sup> AMH-PAD	RALEX® <sup>1</sup> CM-PAD	AR204- UZRA <sup>2</sup>	CR67- HMR <sup>2</sup>	Neosepta® <sup>3</sup> AMX	Neosepta® <sup>3</sup> CMX	Excellion™ <sup>4</sup> I-200	Excellion™ <sup>4</sup> I-100	Ultrex™ <sup>5</sup> AMI-7001	Ultrex™ <sup>5</sup> CMI-7000	PC-SA <sup>6</sup>	PC-SK <sup>6</sup>	SELEMION® <sup>7</sup> AMV	SELEMION® <sup>7</sup> CMV
Type	Anion	Cation	Anion	Cation	Anion	Cation	Anion	Cation	Anion	Cation	Anion	Cation	Anion	Cation	Anion	Cation
Electrical Resistance (Ω/cm <sup>2</sup> )	7.5 ± 0.5 0.5 M NaCl	9.0 ± 0.5 0.5 M NaCl	6.0 ± 0.5 0.5 M NaCl	8.0 ± 0.5 0.5 M NaCl	7.0 0.01 N NaCl	10.0 0.01 N NaCl	2.5 – 3.5 0.5 N NaCl	2.5 – 3.5 0.5 N NaCl	5 – 10 0.5 N NaCl	7.5 – 12.5 0.5 N NaCl	22 @ 0.1 N 8 @ 1.0 N NaCl	18 @ 0.1 N 8 @ 1.0 N NaCl	Not Provided	Not Provided	1.5 – 3.0 0.5 M NaCl	2.0 – 3.5 0.5 M NaCl
Membrane Thickness (mm)	0.75 ± 0.5	0.65 ± 0.5	0.60 ± 0.5	0.55 ± 0.5	0.6	0.6	0.16 – 0.18	0.17 – 0.19	0.32 – 0.34	0.32 – 0.34	0.508 ± 0.025	0.508 ± 0.025	0.09- 0.13	0.09- 0.13	0.11 – 0.15	0.13 – 0.15
Transport Number	>0.97	>0.98	>0.97	>0.98	Not Provided	Not Provided	≥0.98	≥0.98	N/A	N/A	≥0.98	≥0.95	≥0.93	≥0.95	>0.96	>0.96
Burst Strength	Not Provided	Not Provided	Not Provided	Not Provided	10.5 [kg/cm <sup>2</sup> ]	10.5 [kg/cm <sup>2</sup> ]	4.5 – 5.5 [kg/cm <sup>2</sup> ]	5 – 6 [kg/cm <sup>2</sup> ]	41 – 44 PSI [Mullen]	44 – 47 PSI [Mullen]	200 PSI [Mullen]	200 PSI [Mullen]	4 – 5 [bar]	4 – 5 [bar]	2 - 5 [kg/cm <sup>2</sup> ]	3 - 5 [kg/cm <sup>2</sup> ]
Exchange Capacity (meq/gm)	1.8	2.2	1.8	2.2	2.8	2.1	1.4 – 1.7	1.5 – 1.8	Measured as required	Measured as required	1.0 ± 1	1.3 ± 1	1.1	1.2	Not Provided	Not Provided
Thermal Stability	50°C	50°C	50°C	50°C	65°C	65°C	40°C	40°C	100°C	100°C	90°C	90°C	60°C	60°C	40°C	40°C
Country of origin	Czech Republic	Czech Republic	Czech Republic	Czech Republic	USA	USA	Japan	Japan	USA	USA	USA	USA	Germany	Germany	Japan	Japan

- 1 - RALEX® is a registered trademark of Mega a.s. (EET Corporation is an authorized US distributor)
- 2 - Membrane designation of Ionics, Incorporated (GE Infrastructure – Water & Process Technologies)
- 3 - Neosepta® is a registered trademark of Astom Corporation
- 4 - Excellion™ is a trademark of SnowPure LLC
- 5 - Ultrex™ is a trademark of Membranes International Inc.
- 6 - Membrane designation of PCA GmbH
- 7 - SELEMION® is a registered trademark of ACG Engineering Co., LTD.