

ExcellMembranes



SnowPure Water Technologies
 130-A Calle Iglesia
 San Clemente, CA 92672 USA
 +1.949.240.2188
 membranes@snowpure.com

MEMBRANE SPECIFICATIONS	Excellion™	
	CATION MEMBRANE p/n I-100, MI-100	ANION MEMBRANE p/n I-200, MI-200
MEMBRANE TYPE	Heterogeneous, PP-based Strong Acid	Heterogeneous, PP-based, Strong Base, Type I
CHEMICAL FORM	Na(+) Form	Cl(-) Form
STANDARD WIDTH, DRY:	13 33	13 33
STANDARD LENGTH, DRY:	Up to 100 Up to 30.5	Up to 100 Up to 30.5
MEMBRANE THICKNESS, DRY:	0.0130 – 0.0140 0.33 – 0.35	0.0130 – 0.0140 0.33 – 0.35
ELECTRICAL RESISTANCE 0.5N NaCl	(ohm-cm ² , DC) 9.5 – 14.5	(ohm-cm ² , DC) 7.5 – 12.5
WATER PERMEABILITY ml / min / cm ² / psi	Less than 0.0005	Less than 0.0005
MULLEN BURST TEST	44 – 47 PSI 15 PSI	41 – 44 PSI 15 PSI
TOTAL CAPACITY meq/sqm	Maximum 400 – 500	Maximum 700 – 900
NORMAL TEMPERATURE STABILITY		
H/OH form	90°C	60°C
Na/Cl form (as supplied)	90°C	90°C
CHEMICAL STABILITY @ 50°C		
Up to 36% H ₂ SO ₄ , HCL	Stable	Stable
Up to 35% NaOH	Stable	Stable
pH 0 – 14	Stable	Stable
PHYSICAL STABILITY USING CHEMICALS		NaOH under 8% to avoid osmotic shock
NOTES:	<ul style="list-style-type: none"> • Excellion™ should be preconditioned by expanding in 85 – 90°C DI water for 48 hours. • Membranes swell 15 – 25% in all dimensions when preconditioned. • Custom ion-exchange membranes can be made on request. 	

Manufactured under US Patents 6,503,957 and 6,716,888.

GENERAL LIMITED WARRANTY

Excellion Ion Exchange Membranes are offered for sale and warranted, as indicated below, by SnowPure LLC.

All information included herein falls within the normal range of product properties and is based on technical data that SnowPure believes to be reliable. This information should not be used to establish specification limits, nor used alone as the basis of design. It is the user's responsibility to determine the suitability of the product described in this bulletin and that the user's particular conditions of use present no health or safety hazards. Product samples are routinely offered by SnowPure to establish suitability and conditions of use, both of which are the sole obligation of the user.

SnowPure warrants this product to be free from defects in material and workmanship upon delivery. SNOWPURE MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS GIVEN. This warranty and the specifications appearing herein may not be altered except by express written agreement signed by an authorized representative of SnowPure. Representations, oral or written, which are inconsistent with this warranty or technical data are not authorized and if given, should not be relied upon.

SnowPure assumes no liability in connection with any use of this information or product or for results obtained in reliance thereon. The disclosure of this information is not a license to operate under or a recommendation to infringe any patent of SnowPure or others.

In the event of a claim under the foregoing warranty, SnowPure's sole obligation shall be to replace any product or part thereof that proves defective in material or workmanship provided the customer notifies us of any such defect within 30 days of delivery. The membrane in question must be returned to SnowPure for review and testing only with prior authorization. SnowPure shall not be liable for consequential, incidental or any other damages resulting from economic loss or property damages sustained by user from the use of its products.

Customer agrees that if exported, these commodities will be exported from the United States in accordance with U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Excellion™ Membranes, SnowPure Water Technologies
 130-A Calle Iglesia
 San Clemente, CA 92672 USA

email: membranes@snowpure.com
 phone: +1.949.240.2188