0585极膜

0585 Polar membrane



0585极膜是由苯乙烯磺酸型阳离子交换树脂以聚乙烯为粘合剂，经滚炼拉片，用增强材料加固层压而成。

0585 polar membrane is composed of styrene-sulfoacid-type cation exchange resin with polyethylene as adhesive, which, through the process of rolling and pulling, is laminated with reinforcing material.

一、用途

I Application

聚乙烯阳离子交换极膜含有足够的固定基因和可解离的离子，对溶液中的各种离子具有一定的选择透过性和导电性，以及耐化学性和腐蚀性，主要用于电渗析极室。使用温度不超过40℃。

选择机理：阳极膜具有强酸性活性基因R–SO_3^-构成负电场，带正电荷的离子易吸入通过。

Polyethylene cation exchange polar membrane, containing adequate fixed genes and dissociative ions, is of certain selective permeability and electrical conductivity to the ions in solution, and is of chemical resistance and corrosion resistance, mainly used for electrodialysis pole compartment under the temperature not exceeding 40 C.

Mechanism for selection:

Cation polar membrane is of strong-acidity active gene R-SO_3^- forming a negative electric field, and ions with positive charge are easy to be inhaled through.

二、外观

II Outer appearance

0585聚乙烯阳离子交换极膜应平整均匀、无明显的机械损伤（折伤）、无脱网轧皱、不允许有影响质量的杂质存在。

0585极膜外观为桔红色、绿色。

0585 polyethylene cation exchange polar membrane shall be of smooth uniformity without obvious mechanical damage (breakage), crease or existence of any matter impairing the quality.

0585 polar membrane comes in orange color, green color.

三、规格

III Specifications

牌号 Item No.	品种 Product name	作用 Function
0585	聚乙烯阳离子交换极膜 polyethylene cation exchange polar membrane	该膜具有强酸性活性基因R–SO_3^-构成负电场，带正电荷的离子易吸入通过。 It is of strong-acidity active gene R-SO_3^- forming a negative electric field, and ions with positive charge are easy to be inhaled through.

0585极膜聚乙烯阳离子交换极膜外型尺寸规格如下：

External dimensions and specifications of 0585polyethlene cation exchange polar membrane

厚度 Thickness	厚度允许公差 Allowable tolerance	有效面积 Effective area
0.45mm	±0.04mm（干态 dry state）	≧800×1600mm²

四、性能

IV Properties

0585极膜主要物理、化学性能应符合下表之规定：

Main physical and chemical properties of 0585 polar membrane

试验项目 Test items	单位 Unit	指标 Index
含水率 Moisture content	%	35–50
膜面电阻 ≦ Membrane surface resistance ≦	Ω·cm²	15
尺寸变化率（纵、横）≦ Dimensional change rate (vertical and horizontal) ≦	%	5
渗水压力 ≧ Seepage water pressure ≧	MPa	0.15
爆破强度 ≧ Bursting strength ≧	MPa	0.40
抗氧化性氧化腐蚀后强度 Oxidation resistance, and strength after oxidation corrosion a.NaOCl溶液浸168h ≧ a.NaOCl solution dipping 168 h≧ b.2mol/L NaOH浸168h≧ b.2mol/L NaOH dipping 168h≧	 MPa MPa	 0.30 0.15

注：表内“含水率”系指膜湿态下的含水率。

Note: "Moisture content" refers to the one when membrane is in wet state.

五、标志、包装、运输、贮存

V Signs, packing, transport and storage

1、0585聚乙烯阳离子交换极膜以瓦楞纸板箱包装，每箱装50张，约40公斤重，箱外应标明生产单位、产品名称、批号、制造日期、规格、数量，并附有生产单位质量检验部门的合格证及运输注意事项的标志。

2、0585聚乙烯阳离子交换极膜应贮存在清洁、阴凉、干燥、通风的库房内，运输过程中不应受到日晒雨淋及机械损伤。

1 0585 polyethylene cation exchange polar membrane shall be packed in corrugated board carton, each carton containing 50 pieces, about 40kg in weight, and shall be indicated on the carton with the name of manufacturer, product name, batch number, manufacturing date, specifications, quantity, and shall be accompanied with the certificate of quality to be issued by the quality inspection department of the manufacturer as well signs of attention for transport.

2 0585 polyethylene cation exchange polar membrane shall be stored in clean, cool, dry and ventilated storeroom, and shall avoid exposing to the sun and rain, or mechanical damage on the way of delivery.