



未来材料NEXT-GEN MATERIALS

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NEXT-GEN MATERIALS

全氟磺酸树脂及功能膜系列

PERFLUOROSULFONIC ACID RESIN AND FUNCTIONAL
MEMBRANE SERIES

企业简介 COMPANY PROFILE

山东东岳未来氢能材料股份有限公司，成立于2017年12月19日，注册地：淄博市东岳经济开发区。公司专注于含氟功能膜及配套关键材料的研发、生产与销售，以先进含氟功能膜及其关键材料为主要产业方向，立足于核心原料自主可控、主要产品进行国产替代，围绕全氟环氧化物作为关键原料进行一体化产业布局。公司愿景“做受人尊敬的公司，成为全球领先的含氟功能膜和关键材料企业”。

公司共设南北两个厂区，南区为150万平方米燃料电池质子膜生产厂区，由综合研发中心和国际先进的标准化膜车间组成；北区为燃料电池质子膜配套工程，以提供全产业链配套的高科技关键材料。公司主营产品包括氢燃料电池质子膜、水电解制氢膜、液流电池膜、膨体聚四氟乙烯 (ePTFE)、全氟磺酸离子交换树脂、全氟羧酸离子交换树脂、乙烯-四氟乙烯共聚物 (ETFE\F40)、可熔性聚四氟乙烯 (PFA)、全氟弹性体 (PFE)、六氟环氧丙烷 (HFPO)、全氟正丙基乙烯基醚 (PPVE)、全氟甲基乙烯基醚 (PMVE) 等诸多产品。

历经十余年科研攻关，公司形成了从原料、中间体、单体、聚合物、到成膜技术、功能化技术等全产业链条，掌握自主核心技术，拥有强大的市场竞争力。公司主打产品高性能燃料电池质子膜通过了奔驰6000小时测试，技术处于业界领先水平。其他产品性能优异，产品质量和供应保障能力得到国内外客户的广泛认可，被广泛用于化工、电子、医药、农业、汽车、半导体、新能源等重要领域，同时与众多下游龙头企业建立起了紧密的产业合作关系。

Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. was established on December 19, 2017, is registered address in Dongyue Economic Development Zone, Zibo City. The company focuses on the research, development, production and sales of fluorine-containing functional membranes and related key materials. Its main industrial direction is based on advanced fluorine-containing functional membranes and their key materials. It aims to achieve independent control over core raw materials and implement domestic substitution for main products, and carry out an integrated industrial layout centered around perfluorocarboxylic acids as the key raw material. The company's vision is "To become a respected company and a global leading enterprise in fluorine-containing functional membranes and key materials".

The company has two production areas, namely the northern and southern ones. The southern area covers an area of 150 square kilometers for the production of fuel cell proton membranes, consisting of an integrated research and development center and internationally advanced standardized membrane workshops.

The northern area is dedicated to the fuel cell proton membrane supporting projects, providing high-tech key materials for the entire industry. The company's main products include hydrogen fuel cell proton membranes, hydrogen production membranes for electrolysis, liquid flow battery membranes, expanded polytetrafluoroethylene (ePTFE), perfluorosulfonic acid ion exchange resins, perfluorocarboxylic acid ion exchange resins, ethylene-perfluorovinyl copolymer (ETFE/F40), fusible polytetrafluoroethylene (PFA), perfluorosilicone (PFE), hexafluoropropane (HFPO), perfluoropropyl vinyl ether (PPVE), perfluoromethyl vinyl ether (PMVE), and many other products.

After years of scientific research, the company has formed a whole industry chain from raw materials, intermediates, monomers, polymers, to film forming technology, functionalization technology, master independent core technology, and has a strong market competitiveness. The company's flagship product high-performance fuel cell proton membrane has passed the Mercedes-Benz 6000 hours test, and the technology is at the industry-leading level. The company's diverse product lines feature outstanding performance, and both product quality and supply reliability have earned widespread recognition from domestic and overseas customers. These products are extensively used in key sectors such as chemicals, electronics, pharmaceuticals, agriculture, automotive, semiconductor, new energy, etc., and the company has established close industrial partnerships with numerous leading downstream enterprises.



1 全氟磺酸树脂产品
Perfluorosulfonic Acid Resin



全氟磺酸树脂是含氟高分子材料中的一种特殊聚合物，具有超常稳定性和耐化学介质性能。广泛应用于全氟磺酸质子膜燃料电池、氯碱工业、锂离子二次电池、其它电解装置、污水处理、化学催化、光催化、气体分离、功能复合材料特别是机器人用电活性聚合物等领域。

Perfluorosulfonic acid resin is a special polymer in fluorine-containing polymer materials, which has exceptional stability and resistance to chemical media. It is widely used in perfluorinated proton membrane for fuel cells, chlor-alkali industry, lithium ion secondary batteries, other electrolysis devices, sewage treatment, chemical catalysis, photocatalysis, gas separation, functional composite materials, especially electroactive polymers for robots, etc....

全氟磺酸树脂技术指标
Technical Specifications of Perfluorosulfonic Acid Resin

项目 Item	单位 Unit	DHS1103F	DHS1103N	DHS1103H	DHS1085H
端基状态 End Group	/	-SO ₂ F	-SO ₃ Na	-SO ₃ H	-SO ₃ H
外观 Appearance	/	白色粉末或颗粒 White Powder or Particle			
离子交换容量 Ion Exchange Capacity	mmol/g	1.03±0.02			0.85-0.90
分解温度 Decomposition Temperature	°C	> 350			> 250
密度 Density	g/cm ³	1.98±0.05			

2 全氟磺酸树脂分散液
Perfluorosulfonic Acid Iononmer Dispersion



全氟磺酸树脂分散液，由全氟磺酸树脂分散到不同溶剂体系中制备而成。具有粘度低、离子传导效率高、性能均一稳定等特点，主要应用于燃料电池用质子交换膜生产、电解质薄膜生产、聚四氟乙烯表面功能性处理、催化剂涂层制备、电化学传感器生产等领域。

Perfluorosulfonic acid resin dispersion is prepared by dispersing PFSA resin in various solvent systems. It features low viscosity, high ionic conduction efficiency, and uniform, stable performance. It is primarily used in the production of proton exchange membranes for fuel cells, production of electrolyte films, functionalization of polytetrafluoroethylene surfaces, preparation of catalyst coatings, and production of electrochemical sensors.

VOC含量小于5%的水体系树脂溶液牌号及技术要求
Grade and Technical Requirements of Aqueous Resin Solution With VOC Content Less Than 5%

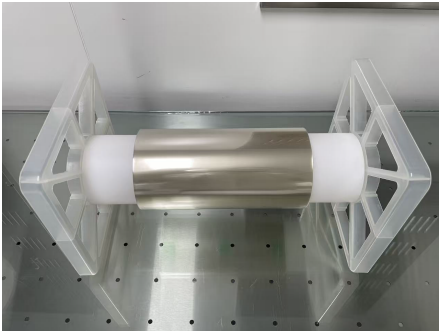
产品牌号 Product Number	DHa105	DHa110	DHa15	DHa120
牌号第三位a，为EW值代号（2,3,4） EW (a for EW)	a分别是2:950-1000, 3:780-830, 4:700-800(短支链) a(2,3, and 4), represent EW(950-1000,780-830,700-800).			
聚合物含量 (wt%) Solid Content (wt%)	5.0~6.0	10.0~11.0	15.0~16.0	20.0~21.0
含水量 (wt%) Water (wt%)	>89	>84	>79	>74
VOC含量 (wt%) VOC (wt%)	<5	<5	<5	<5
粘度, 25°C (cP) Viscosity, 25°C (cP)	<50	<50	<100	<100

醇/水体系树脂溶液牌号及技术要求

Alcohol/Water System Resin Solution Grade and Technical Requirements

产品牌号 Product Number	DHab05	DHab10	DHab15	DHab20
牌号第三位a, 为EW值代号 (2,3,4) EW (a for EW)	a分别是2:950-1000, 3:780-830, 4:700-800。 a(2,3, and 4), represent EW(950-1000,780-830,700-800).			
牌号第四位b, 为溶液体系代号 (2,3) b, for Solution System	b分别是2: 乙醇/水体系; 3: 丙醇/水体系。 b(2, and 3), represent ethanol water system and propanol water system respectively.			
聚合物含量 (wt%) Solid Content (wt%)	5.0~6.0	10.0~11.0	15.0~16.0	20.0~21.0
含水量 (wt%) Water (wt%)	47.5±3	45±3	42.5±3	40±3
VOC含量 (wt%) VOC (wt%)	47.5±3	45±3	42.5±3	40±3
粘度, 25°C (cP) Viscosity, 25°C (cP)	<100	<200	<300	<400

3 全氟磺酸树脂功能膜类产品
Perfluorosulfonic Acid Resin Functional Membrane
3.1 液流电池膜
Perfluorosulfonic Acid Membrane



液流电池膜是一种采用全氟磺酸树脂制备,内部复合增强材料,具有阳离子单向通过特性的质子交换膜,具有厚度小、强度大、溶胀度低、尺寸稳定性高、耐久性好等特点,可广泛应用于全钒液流电池、铁铬液流电池等领域。

The product is made of perfluorosulfonic acid resin, and has a reinforced materials inside, which allows cations one-way permeation. It shows good characteristics such as thin thickness, high strength, low swelling rate, high dimensional stability, and durability etc..It can be widely used in vanadium flow battery, Fe-Cr flow battery, etc.

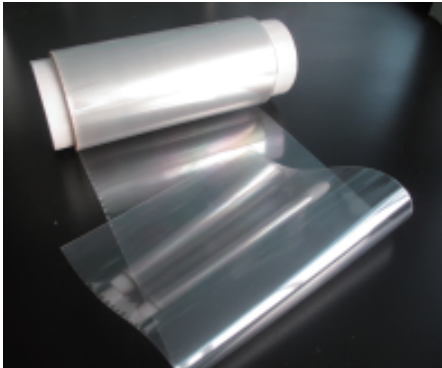
液流电池膜各规格性能指标

Flow Battery Membranes Specifications Performance Indicators

项目 Item	DM8120	DM8130	DM8135
厚度 (μm) Thickness (μm)	50±3	60±3	40±3
拉伸强度 (横向/纵向) (MPa) Tensile Strength (TD/MD) (MPa)	≥40/40	≥40/40	≥45/45
断裂伸长率 (横向/纵向) (%) Elongation at Break (TD/MD) (%)	≥180/180	≥180/180	≥200/200
穿刺强度 (gf) Puncture Strength (gf)	≥700	≥800	≥600
含水量 (%) Water Content (%)	≤5	≤5	≤7
溶胀率 (横向/纵向) (%) Swelling Ratio (TD/MD) (%)	≤4/4	≤4/4	≤2/2
钒离子渗透率 (10 ⁻⁷ cm ² min ⁻¹) Vanadium Ion Permeability (10 ⁻⁷ cm ² min ⁻¹)	≤10	≤10	≤7
库伦效率 (%) Coulomb Efficiency (%)	≥96.0	≥96.5	≥96.5
能量效率 (%) Energy Efficiency (%)	≥82.5	≥81.5	≥82.5
电压效率 (%) Tensile Strength (TD/MD) (MPa)	≥86.0	≥84.5	≥85.5

3.2 全氟磺酸燃料电池质子膜

Perfluorosulfonic Acid Membrane



全氟磺酸燃料电池质子膜是一种固体聚合物电解质,具有优良的耐热性能、力学性能、电化学性能以及化学稳定性能,可在强酸、强碱、强氧化剂介质等苛刻条件下使用。质子膜制备的燃料电池可广泛应用于乘用车、商用车、叉车、无人机、备用电源、便携式发电机、供家庭和商业建筑使用的热电联产系统等。

Fuel cell proton membrane is a solid polymer electrolyte with excellent heat resistance, mechanical properties, electrochemical properties and chemical stability. It can be used under harsh conditions such as strong acids, strong bases, and strong oxidants. Fuel cells prepared by proton membranes can be widely used in passenger cars, commercial vehicles, forklifts, unmanned aerial vehicles, backup power sources, portable generators, cogeneration systems for homes and commercial buildings, etc.

液流电池膜各规格性能指标

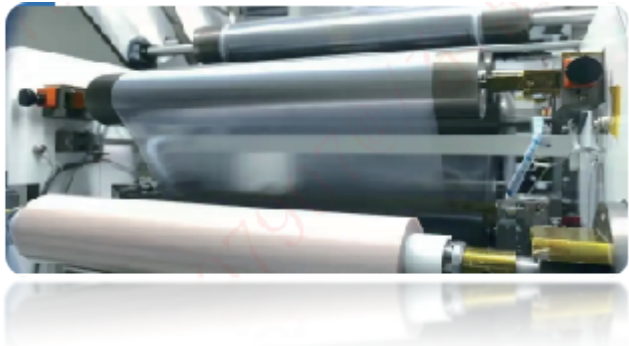
Flow Battery Membranes Specifications Performance Indicators

项目 Item	DMR100	DM2256	DM2266	DM2276	DM2136
厚度 (μm) Thickness (μm)	15±1	15±1	12±1	10±1	18±1
拉伸强度 (横向/纵向) (MPa) Tensile Strength (TD/MD) (MPa)	≥30/30	≥30/30	≥30/30	≥40/40	≥30/30
断裂伸长率 (横向/纵向) (%) Elongation at Break (TD/MD) (%)	≥100/100	≥100/100	≥100/100	≥100/100	≥100/100
弹性模量 (横向/纵向) (MPa) Elastic Modulus (TD/MD)(MPa)	≥250	≥300	≥300	≥300	≥300

项目 Item	DMR100	DM2256	DM2256	DM2276	DM2276
尺寸变化率 (TD/MD) (%) Hydration Dimensional Change(TD/MD) (%)	≤5/5	≤5/5	≤5/5	≤5/5	≤7/7
电导率 (mS/cm)85°C、50%RH Proton Conductivity (mS/cm) 85°C 50%RH	≥30	≥40	≥50	≥50	≥50
氢气渗透率 [cm³·cm/(cm²·s·Pa)] Hydric Permeability (cm³·cm/(cm²·s·Pa))	≤2*10 ⁻⁹	≤2*10 ⁻⁹	≤2*10 ⁻⁹	≤2*10 ⁻⁹	≤2*10 ⁻⁹
化学耐久性/h (90°C-30%RH) Chemical durability/h (90°C-30%RH)	800	800	800	800	1500
机械耐久性/次 (80°C) Mechanical Durability/times (80°C)	20000				
化学机械耐久性耦合/次 (90°C) Combined Chemical and Mechanical Durability/times (90°C)	20000				

3.3 水电解制氢膜

Perfluorosulfonic Acid Membrane



水电解制氢膜是一种固体聚合物电解质,是一种带有离子交换功能端基的全氟磺酸质子交换膜,具有优良的耐热性能、力学性能、电化学性能以及化学稳定性能,可在强酸、强碱、强氧化剂介质等苛刻条件下使用,广泛用于PEM水电解制氢等领域。

The product is a solid polymer electrolyte, a perfluorosulfonic acid proton exchange membrane with ion exchange function end groups. It has excellent heat resistance, mechanical properties, electrochemical properties and chemical stability. It can be used under harsh conditions such as strong acids, strong bases, and strong oxidizers. It is widely used in the fields of PEM water electrolyzers.

水电解制氢膜各规格性能指标

PEM Specifications Performance Indicators

项目 Item	DME670	DM6321	DM6525	DM6725
厚度 (μm) Thickness (μm)	175±10	120±10	80±4	50±3
拉伸强度 (横向/纵向) (MPa) Tensile Strength (TD/MD) (MPa)	≥25/25	≥28/28	≥30/30	≥30/30
断裂伸长率 (横向/纵向) (%) Elongation at Break (TD/MD) (%)	≥200/200	≥200/200	≥250/250	≥250/250
杨氏模量(TD/MD) (MPa) Young's Modulus (TD/MD) (MPa)	≥180/180	≥200/200	≥200/200	≥200/200
尺寸变化率(TD/MD/Z) (%) Hydration Dimensional Change(TD/MD/Z) (%)	≤25/25/25	≤25/25/25	≤15/15/45	≤15/15/40
质子传导率 (mS/cm) Conductivity (mS/cm)	≥140	≥140	≥140	≥140

Expanded polytetrafluoroethylene (ePTFE) is a microporous Membrane formed by pushing, expanding and stretching polytetrafluoroethylene resin as raw materials. It has a special fibrous microporous structure, high mechanical properties, small pore size, waterproof and breathable characteristics, and can be used in electronic products, special clothing, industrial filtration, medical and other fields. Preparation of mobile phone and loudspeaker electronic Membrane, nanomask, protective clothing, medical filling material, seawater desalination Membrane, sewage treatment Membrane, air filtration products.

4.1 ePTFE服装膜

ePTFE Clothing Membrane

ePTFE服装膜主要用于特种防护服面料,如消防服、军服等,防寒服及户外运动服装。同时也可制造防水鞋帽、帐篷等,具有防水、防尘、透湿、防风等作用。与同类防水透湿膜相比,具有轻便、耐静水压高、透湿量大、穿着舒适等优点。

ePTFE clothing Membrane is mainly used in special protective clothing fabrics, such as fire clothing, military clothing, cold clothing and outdoor sports clothing. At the same time, it can also make waterproof shoes and hats, tents, etc., with waterproof, dust proof, moisture permeability, windproof and other functions. Compared with similar waterproof and moisture permeable Membrane, it has the advantages of lightweight, high hydrostatic pressure resistance, large moisture permeability and comfortable wearing.

ePTFE服装膜技术指标 (DM3068F)

ePTFE Clothing Membrane Technical Specifications (DM3068F)

项目 Item	单位 Unit	测试标准 Method	指标 Property
宽幅 Width	m	GB/T4666	1.55-1.65
透湿性 Moisture Permeability	g/m ² ·24h	GB/T12704.1	> 8000
静水压 Hydrostatic Pressure	Pa	GB/T4774	> 100000
透气性 Air Permeability	mm/s	GB/T5453	> 1

4 膨体聚四氟乙烯 (ePTFE)

Expanded polytetrafluoroethylene (ePTFE)



膨体聚四氟乙烯 (ePTFE) 是以聚四氟乙烯树脂为原料经推挤、膨化拉伸形成的微孔膜,拥有特殊的纤维状微孔结构,力学性能高、孔径较小,具备防水、透气的特性,可用于电子产品、特种服装、工业过滤、医疗等领域,制备手机及扬声器用电子膜、纳米口罩、防护服、医用填充材料、海水淡化膜、污水处理膜、空气过滤产品等。

4.2 ePTFE过滤膜

ePTFE Filter Membrane

空气过滤用ePTFE膜材料微孔纤维交错排列、孔径小且均匀、孔隙率高、抗黏附性强、透气性好、阻力低，能够实现大多数污染固体颗粒烟尘及液滴的拦截阻隔，易于与玻璃纤维布、高温针刺毡等材料复合，可广泛的应用到冶金、化工、煤炭、热电厂、水泥及垃圾焚烧等行业。

ePTFE Membrane material for air filtration has microporous fibers interleaved, small and uniform pore size, high porosity, strong adhesion resistance, good permeability and low resistance, which can realize the interception and barrier of most polluted solid particles, soot and liquid droplets, and is easy to be combined with glass fiber cloth, high temperature needled felt and other materials. It can be widely used in metallurgy, chemical industry, coal, thermal power plant, cement and waste incineration and other industries.

ePTFE过滤膜技术指标 (DM3-L02)

ePTFE Filter Membrane Technical Specifications (DM3-L02)

项目 Item	单位 Unit	测试标准 Method	指标 Property
宽幅 Width	m	GB/T4666	≤2.3
厚度 Thickness	μm	GB/T3820	10-30
克重 Density	g/m²	GB/T4669	0.7-5
透气量 Air Permeability	L/m²/s@200Pa	GB/T5453	≥70

4.3 ePTFE电子膜

ePTFE Electronic Membrane

电子防水用ePTFE微孔膜，微孔结构稳定、孔径小且均匀，具有优异的液体阻隔和气体透过特性，在满足传统密封材料防水要求的同时，还能够平衡电子产品密封腔内压强及温度随环境变化带来的变化，作为压力平衡膜；另外，能够满足IPX8防水等级的同时，还可以实现声音的高品质传递，用作电子透声膜（Mic膜）。

Electronic waterproof ePTFE microporous Membrane, microporous structure is stable, small and uniform pore size, with excellent liquid barrier and gas transmission characteristics, to meet the traditional sealing material waterproof requirements at the same time, but also to balance the pressure and temperature changes in the sealing chamber of electronic products with environmental changes, as a pressure balance Membrane; In addition, while meeting the IPX8 waterproof rating, it can also achieve high-quality sound transmission and be used as an electronic sound transmission Membrane (Mic Membrane).

ePTFE电子膜技术指标

ePTFE Electronic Membrane Technical Specifications

项目 Item	单位 Unit	测试标准 Method	指标 Property		
			平衡膜DM3087D Balance Membrane	Mic膜DM3089D Mic Membrane	透气膜DM3020D Permeable Membrane
厚度 (μm) Thickness (μm)	μm	GB/T 3820	10-15	10-15	4-12
防水防尘等级 Water Protection	(Φ1.6 mm)	IEC 529-598	5atm, 50m 30min	5atm, 50m 30min	IP67/IP68
透气量 Air Permeability	ml/cm²/min@7Kpa	GB/T5453	>200	>200	≥7000
音损 Insertion loss	dB	/	/	<5dB (Φ1.6 mm)	/

4.4 ePTFE高频高速带

ePTFE Tape

ePTFE高频高速带凭借独特的微观结构，在保留聚四氟乙烯（PTFE）优异特性的基础上，兼具低损耗、高强度、高柔韧性及轻量化等复合优势，被视为高端线缆理想的介质材料。

ePTFE Tape, with its unique microstructure, retains the excellent properties of polytetrafluoroethylene (PTFE) and features composite advantages including low loss, high strength, high flexibility and light weight, making it an ideal dielectric material for high-end cables.

ePTFE高频高速带技术指标
ePTFE Tape Technical Specifications

项目 Item	单位 Unit	测试标准 Method	指标 Property				
			DM3113R	DM3136R	DM3133R	DM3133R	DM3156R
厚度 Width	μm	GB/T4666	300/150/127±5	100±5	102/100/95/ 90±5	80/77/75/70±5	75±5
密度 Density	g* cm ⁻³	GB/T3820	0.7/0.75±0.05	1.0/1.2±0.05	0.7/0.75±0.05	0.7/0.75±0.05	1.2±0.05
拉伸强度 Tensile Strength	MPa	QB/T3627 -1999	>20	>30	>30	>35	>25
断裂伸长率 Elongation at Break	%	QB/T3627 -1999	>30	>30	>30	>30	>30

注意事项

- 产品存储时请避免阳光直射，远离热源及灰尘，建议存储温度在0℃和32℃之间，并保持包装密闭。
- 产品在运输和保存中避免磕碰、挤压，表面禁止用手触碰，以免造成污染。
- 产品在运输过程中注意轻拿、轻放，防止挤压受损。
- 产品废料须遵循相关法律法规处理。

Attention

- Keep the product away from direct sunlight, heat source and dust. The recommended storage temperature is between 0℃ and 32℃, and keep the package sealed.
- Avoid bumping and squeezing the product during transportation and storage, and prohibit touching the surface by hand to avoid pollution.
- The product should be handled gently during transportation to prevent damage from extrusion.
- Product waste shall be handled in accordance with relevant laws and regulations.

市场推广部

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