

Aquivion® P87S-SO2F

Perfluorosulfonyl Fluoride

Solvay Specialty Polymers

Описание материалов:

Aquivion® P87S-SO2F are chemically-stabilized (denoted by the S-suffix) perfluorinated pellets in the sulfonyl fluoride (-SO2F) form that exhibit an Equivalent Weight (EW) of 870 g/eq. This material is based on the unique Short Side Chain copolymer of Tetrafluoroethylene (TFE) and Sulfonyl Fluoride Vinyl Ether (SFVE) F2C=CF-O-CF2CF2-SO2F produced by Solvay.

Aquivion® P87S-SO2F resin can be easily melt extruded into a variety of shapes. The extruder should be equipped with a standard three-zone metering screw devoid of barrier or mixing elements. Optimum temperature settings will depend on the configuration of the equipment, but generally range from 200 to 300°C.

Optionally, functional groups in the molded part are then hydrolyzed in baths or wet benches with a heated base (NaOH, KOH etc) reaction which may take minutes or hours, depending on thickness and conditions.

Aquivion® P87S-SO2F can be directly hydrolyzed as described, either completely or only on their outer surface. This will enable functional activity of the sulfonic acid / sulfonyl salt groups for ion-exchange operations or as an acid catalyst.

Like other fluoropolymers, Aquivion PFSA pellets are corrosive in the melt; therefore, all parts having prolonged contact with the melt should be made with corrosion-resistant materials such as Hastelloy®, Inconel®, Monel® or Xaloy®. Chrome or nickel plating is not recommended since they are typically only sufficient for brief processing tests.

Главная Информация			
Внешний вид	Полупрозрачный		
Формы	Частицы		
Физический	Номинальное значение	Единица измерения	Метод испытания
Массовый расход расплава (MFR) ¹			ASTM D1238
270°C/2.16 kg	5.0 - 20	g/10 min	ASTM D1238
280°C/5.0 kg	15 - 50	g/10 min	ASTM D1238
Эквивалент (EW) ²	840 - 900	g/eq	Internal method
Плотность	2.080	g/cm ³	ASTM D792
Тепло кристаллизации	230 - 250	°C	ASTM D3418
Тепло плавления	8 - 10	°C	ASTM D3418
Время сушки	20.0	hr	
Thermal Resistance ³	350	°C	TGA
Температура сушки-В вакуумной печи	105	°C	
Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура плавления	230 - 250	°C	ASTM D3418
Дополнительная информация	Номинальное значение	Единица измерения	Метод испытания

HEALTH, SAFETY AND ENVIRONMENT

Aquivion® pellets are not harmful if used and handled according to standard processing procedures (see for example "The Guide to the Safe Handling of Fluoropolymer Resins" issued by the Society of the Plastics Industry). If handled inappropriately, membranes may release harmful toxic chemicals. Please refer to corresponding Material Safety Data Sheets for more information on handling and safety.

PACKAGING, SHIPMENT AND STORAGE

Aquivion® pellets are delivered in standard polypropylene bottles and drums. Products should be kept closed in their original packaging.

NOTE

1. Nominal value

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|----|----------------------------|
| 2. | eq = mol SO ₃ H |
| 3. | In air, ramped 10°C/min |
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