

Aquivion® PW79S-Li

Perfluorosulfonic Acid Lithium Salt

Solvay Specialty Polymers

Message:

Aquivion® PW79S-Li is a coarse powder based on the short-side-chain (SSC) copolymer of Tetrafluoroethylene and the Sulfonfyl Fluoride Vinyl Ether (SFVE) $\text{CF}_2=\text{CF}-\text{O}-(\text{CF}_2)_2-\text{SO}_2\text{F}$ produced by Solvay. The resulting perfluoropolymer's functional groups are in their lithium sulfonate form, SO_3Li .

Aquivion® PW79S-Li is chemically stabilized (denoted by the S-suffix).

This material is characterized by a low equivalent weight and a high ionic exchange capacity. It is insoluble in water, acids or bases and in most solvents unless extreme conditions would be applied.

Aquivion® PW79S-Li can be mechanically processed into blends, films or substrate coatings and preferably accompanied or followed by a heat treatment. Furthermore, It can be dissolved in organic solvents that are dipolar aprotic such as N-ethyl-2-pyrrolidone (NEP) and dimethyl sulfoxide. To facilitate the dissolution, slightly increase the temperature to 50-60°C.

For casting processes you can also consider Aquivion® D79-25BS-Li dispersion.

Please visit Aquivion.com for more information.

General Information			
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Equivalent (EW) ¹	770 - 810	g/eq	Internal method
Ionic Exchange Capacity	1.23 - 1.30	meq/g	Internal method
Additional Information	Nominal Value	Unit	Test Method

HEALTH, SAFETY AND ENVIRONMENT

Aquivion® powders are not harmful if used and handled according to standard processing procedures, such as those outlined in "The Guide to the Safe Handling of Fluoropolymer Resins" issued by the Society of the Plastics Industry. If handled inappropriately, powders 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® powders are delivered in standard polypropylene bottles and drums. Products should be kept closed in their original packaging.

NOTE

1. eq = mol SO_3H

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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