

Aquivion® D79-25BS-Li

Perfluorosulfonic Acid Lithium Salt

Solvay Specialty Polymers

Message:

Aquivion® D79-25BS-Li is a chemically-stabilized (denoted by the S-suffix) perfluorosulfonic acid (PFSA) lithium salt dispersion that exhibits an Equivalent Weight (EW) of 790 g/eq. Polymer concentration is 25 percent. Solvent system is >99% water and is free of ethers.

Aquivion® PFSA lithium salt dispersion is based on the unique Short Side Chain copolymer of Tetrafluoroethylene (TFE) and Sulfonyl Fluoride Vinyl Ether (SFVE) $F_2C=CF-O-CF_2CF_2-SO_2F$ produced by Solvay. The resulting perfluoropolymer's functional groups are in their lithium sulfonate form, $(-SO_3Li)$.

Once formulated with solvents, Aquivion® D79-25BS-Li can be used for the preparation of cast films or coatings on various substrates. Formulations with volatile and non-volatile additives can be used to make components for electrochemical devices.

Please visit Aquivion.com for more information.

General Information			
Physical	Nominal Value	Unit	Test Method
HSE/Transportation Classification	Corrosive		
Equivalent (EW) ¹	770 - 810	g/eq	Internal method
Polymer concentration	25	%	TGA
Density (25°C)	1.150	g/cm ³	ASTM D1475
Viscosity ² (< 25°C)		mPa · s	ASTM D2196
flammability-Under environmental conditions	No		
Ionic Exchange Capacity	1.23 - 1.30	meq/g	
Additional Information	Nominal Value	Unit	

HEALTH, SAFETY AND ENVIRONMENT

Aquivion® D79-25BS-Li is 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 improperly(e.g. overheating above 260°C (500°F) for an extended period of time) the dispersion may release harmful toxic chemicals. Please refer to corresponding Material Safety Data Sheets (SDS) for more information on handling and safety.

PACKAGING, SHIPMENT AND STORAGE

Aquivion® PFSA D79-25BS-Li is available in 5 and 60 liter containers. It is recommended to store the product at 25 °C (77 °F) in a clean temperature-controlled and well ventilated environment, protected from direct sunlight and other sources of heat or irradiation. Containers should be kept tightly closed to avoid solvent evaporation.

NOTE

- eq = mol SO₃H
- Dynamic mechanical spectrometer
rheometer RFS III geometry:
Couette mode: steady speed scan
test value: 40 1 / s

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