

Aquivion® D79-25BS

Perfluorosulfonic Acid
Solvay Specialty Polymers

Message:

Aquivion® PFSA dispersants are based on low molecular weight sulfonyl fluorovinyl ether (SFVE) F2C = CF -O- CF2CF2 SO 2 F short-edge chain (SSC) copolymers produced from unique tetrafluoroethylene and Suwei specialty polymers. The PFSA ion crosslinked polymer dispersion contains acid form (R -SO3H), which can be provided in various solvent systems, EW and concentrations.

Aquivion® PFSA dispersants can be used for the production of PEM fuel cell electrodes, electrodes for electrochemical cells, the manufacture or maintenance of ion exchange membranes, the production of super acid catalysts, or the surface treatment of PTFE membranes that improve wetting performance.

General Information			
Appearance	White-like		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
HSE/Transportation Classification	Corrosive		
Equivalent (EW) ¹	790± 20	g/eq	Internal method
Polymer concentration-nominal	25	%	TGA
Density (20°C)	1.140	g/cm³	Internal method
Solvent system-(% w/w)	Water> 99%, no ether, chemically stable		
Viscosity ² (25°C)	5 - 15	mPa·s	ASTM D2196
Total acid content	1.23 - 1.30	meq/g	Internal method
flammability-Under environmental conditions	No		
Additional Information			

健康,安全和环境-如果按照标准加工流程进行使用和操作,Aquivion® PFSA不会产生危害(示例参考塑料工业学会出版的“氟聚合物树脂安全操作指南”).如果操作不当(如长时间加热温度超过230°C),分散剂会释放出有毒有害化学物质. 根据运输法规,Aquivion® PFSA 分散剂牌号的化学性质被定为危险物质(见(ADR, IATA, IMDG). D83-06A 为可燃牌号, D83-24B 及 D79-20BS为腐蚀性牌号((R-SO3H 为强酸,测得 pH < 2),更详细信息,请参阅相关材料安全数据表单的操作及安全信息.包装,装运及存储

Aquivion® PFSA D83-06A and D83-24B有0.5, 5及 60升包装规格可供 (D79-20BS:0.25升).建议将产品存放于25 °C (77 °F)恒温,整洁,通风良好的环境,避免阳光直射和其它热源或辐射源.容器应密封完好,防止溶剂蒸发.D83-06A 应远离火星,火焰或其它可能火源.

分子结构

Aquivion® PFSA 离聚物是四氟乙烯, C 2 F 4,乙烷磺酰氟,1,1,1,2,2 - 四氟-2 - [(三氟乙烯基)氧基], C2F3 -O - (CF 2) 2- SO 2 F共聚物.醚桥和SO2F功能单元之间的部分通常被称为“侧链”.Aquivion ® PFSA具有超短,超低分子量侧链的特性为终端用户带来了一系列有利因素.EW介于770~850时,共聚单体含量一般为15.0~17.5%摩尔之间.

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

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