

Solvay Specialty Polymers Aquivion® E87-12S Tetrafluoroethylene + SFVE (TFE+SFVE)

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

Aquivion® PFSA ionomer membranes are melt-extruded products based on the unique Short Side Chain (SSC) copolymer of Tetrafluoroethylene and a Sulfonyl Fluoride Vinyl Ether (SFVE) $F_2C=CF-O-CF_2CF_2-SO_2F$. Aquivion® PFSA ionomer membranes are available in the acid form and feature lower Equivalent Weight (EW) than most competitive proton exchange membranes. The SSC copolymer allows higher crystallinity, improved mechanical properties and better proton conductivity. Typical applications of Aquivion® PFSA membranes are PEM fuel cells, water electrolyzers, H2 or RedoxFlow batteries separators, pervaporation or gas humidification systems. Aquivion® E98-09S exhibits EW of 980 g/eq. The value is controlled systematically according to an internal titration procedure. Additional Properties: Conductivity - Internal Method > 228 mS/cm; Density - Internal Method 1.930 g/cm³; Elongation - ASTM D882 140 MPa; Elongation - ASTM D882 175 MPa; Equivalent Weight (EW) - Internal Method 870 g/eq; Membrane - 120.0 µm; Membrane - 232 g/m²; Tensile Modulus - 250 MPa; Tensile Stress - ASTM D882 40.0 MPa; Tensile Stress - ASTM D882 30.0 MPa; Total Acid Capacity - Internal Method > 1.12 meq/g; Water Uptake Properties (in liquid) - Internal Method 45 %; Water Uptake Properties (in liquid) - Internal Method < 15 %; Water Uptake Properties (in liquid) - Internal Method < 20 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Aquivion-E87-12S-Tetrafluoroethylene-SFVE-TFESFVE.php

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	

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