

Veradel® 3000MP

polyethersulfone

Veradel® 3000MP is a high molecular weight polyethersulfone (PESU) homopolymer powder designed specifically for the fabrication of microporous and ultraporous filtration membranes, in both hollow fiber and flat sheet forms.

Veradel® 3000MP features high purity, excellent toughness and outstanding hydrolytic resistance. It also offers superior resistance to mineral acids and bases and good resistance to moderate concentrations of chlorine. All Veradel® PESU polymers may be sterilized using a variety of methods, including steam, gamma ray, e-beam and ethylene oxide.

Veradel® PESU polymers are also available in a range of lower molecular weight alternatives, from 3000MP down to the lowest molecular weight offering, 3600P. There is a direct correlation between molecular weight and solution viscosity.

Typical applications for which Veradel® 3000MP is suited include hemodialysis, drinking water purification, pretreatment for reverse osmosis plants, wastewater treatment, food and beverage processing, and a variety of other industrial and bioprocessing fluid filtration uses.

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• Acid Resistant • Chemical Resistant • Creep Resistant • Flame Retardant • Food Contact Acceptable • Good Adhesion • Good Dimensional Stability • Good Thermal Stability	• Good Toughness • High Heat Resistance • High Molecular Weight • High Tensile Strength • Hydrolysis Resistant • Low Flow • Medium Rigidity
Uses	• Filtration Media	• Membranes
RoHS Compliance	• Contact Manufacturer	
Appearance	• Transparent - Slight Yellow	
Forms	• Powder	
Processing Method	• Cast Film • Coating	• Solution Processing

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.37		ASTM D792
Water Absorption (24 hr)	0.60	%	ASTM D570
Solution Viscosity ¹	1800	mPa·s	Internal Method
Residual Solvent	< 0.15	%	Internal Method

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	220	°C	ASTM E1356

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Notes

Typical properties: these are not to be construed as specifications.

¹ 25% in dimethylacetamide at 40°C