



## MEMBRANE DATA SHEET Toray Submerged Membrane

Parameter	Units	Value
Manufacturer		Toray Industries, Inc.
Membrane Model Number		HSU-1515
Membrane Element ID Number(s)		
Membrane Commercial Designation		TORAYFIL
Number of Elements Tested	#	1
Approximate Size of Element (l x w x h)	inch	52.4 x 6.9 x 6.9
Inside Diameter of Fiber	mm	0.9
Outside Diameter of Fiber	mm	1.4
Active Length of Fiber	inch	43
Active Membrane Area per Module	sq ft	215
Flow Direction	inside out / outside in	outside in
Number of Fibers per Element		about 6,500
Available Operating Modes	Direct, Crossflow	Both
Membrane Material		PVDF
Membrane Surface Characteristics	<slightly> hydrophobic.. hydrophilic	hydrophilic
Membrane Charge	<slightly> negative / positive	not measured
Nominal Molecular Weight Cutoff	Daltons	150,000
Nominal Membrane Pore Size	micron	0.01
Maximum Membrane Pore Size	micron	0.088
Design Operating TMP	psi	0 – 10
Design Flux (at 20°C)	gfd at 20°C	12 – 49
Maximum Operating TMP	psi	10
Acceptable Range of Operating pH		1 – 10
Acceptable Range of Operating Temperature	degC	0 – 40
Maximum Turbidity	NTU	500*
Chlorine / Oxidant Tolerance	ppm-hrs	1,000,000

\*Consult TMUS for feed water turbidity greater than 500 NTU

# Technical Data Sheet Toray

**U. Balachandran, Kathleen Amm, David  
Evans, Eric Gregory, Mike  
Osofsky, Sastry Pamidi, Chan Park, Judy  
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