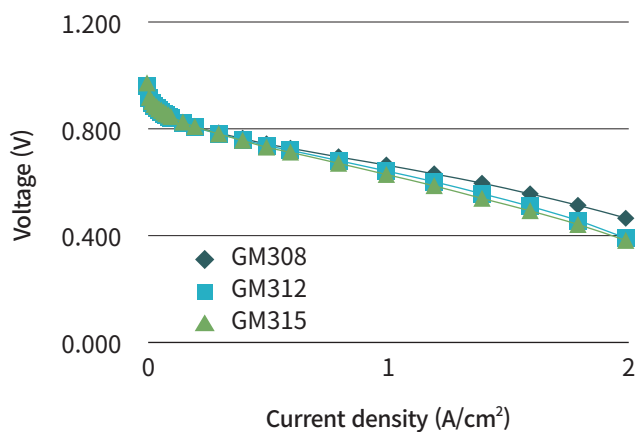


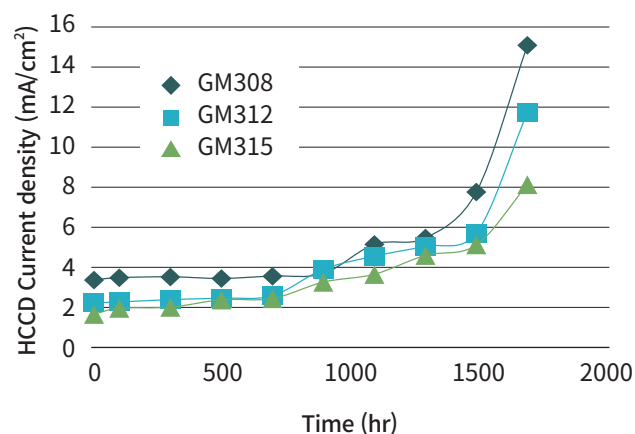
GreenMem® for Fuel Cell

Physical Characteristics			GM305	GM308	GM312	GM315	GM318	
Thickness		μm	5	8	12	15	18	M/M
Ion Conductivity		S/cm	0.382	0.335	0.249	0.296	0.304	80°C/RH95%
Tensile Strength	MD	MPa	82	95	68	68	62	ASTM D882
	TD		84	103	70	66	62	
Elongation to Break	MD	%	189	183	187	201	271	
	TD		187	139	171	208	276	
Swelling Ratio	MD	%	0	0	0	0	0	100°C/ RH100%/10min
	TD		3	3	3	4	4	
Performance Durability								
Chemical Durability	OCV hold test	hr	☉	☉☉	☉☉☉	☉☉☉☉	☉☉☉☉☉	90°C/RH30%
Performance	IV Curve	A/cm²	☉☉☉☉	☉☉☉☉	☉☉	☉☉	☉☉	80°C/RH50%
Hydrogen Crossover	LSV(HCCD)	mA/cm²	☉	☉☉	☉☉	☉☉☉	☉☉☉	80°C/RH100%
Roll Properties								
Standard roll widths		mm	340 450	340 450	340 450	340 450	340 450	
Standard length		m	200/400	200/400	200/400	200/400	200/400	
Trailer length		m	15	15	15	15	15	

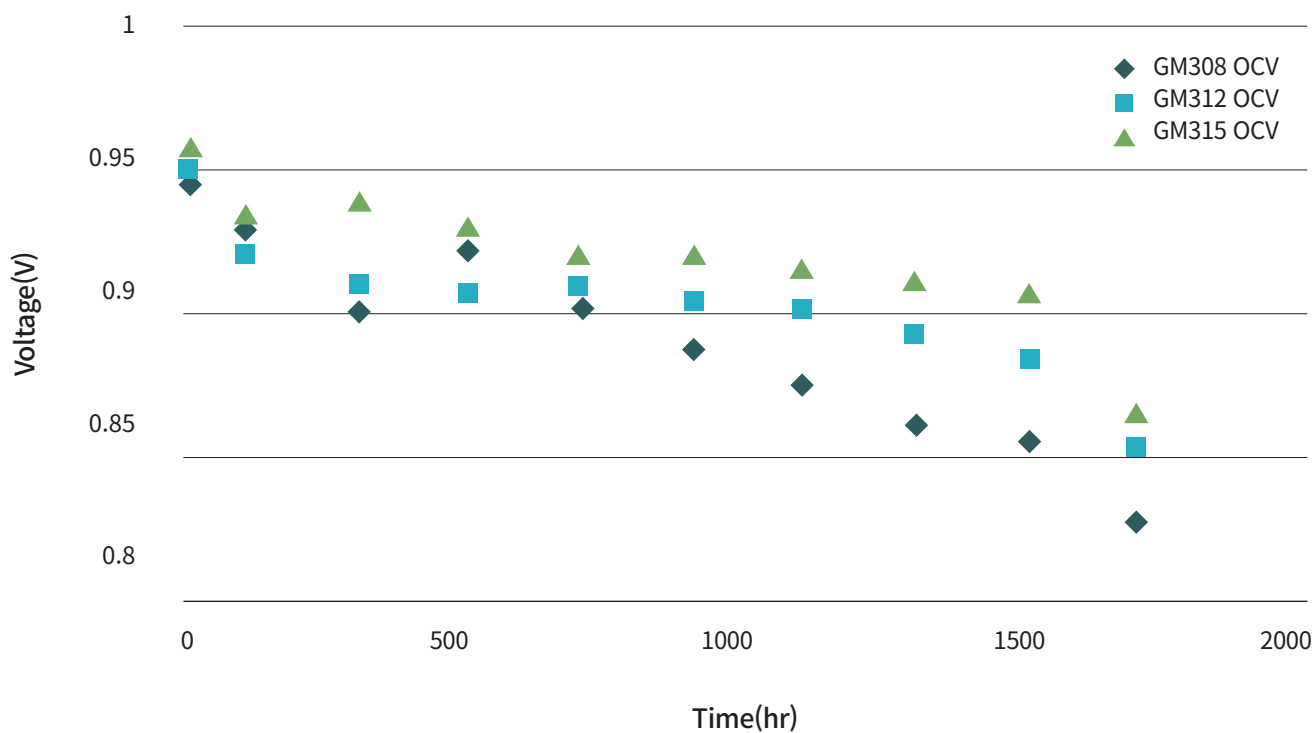
IV Curve GM308, 312, 315



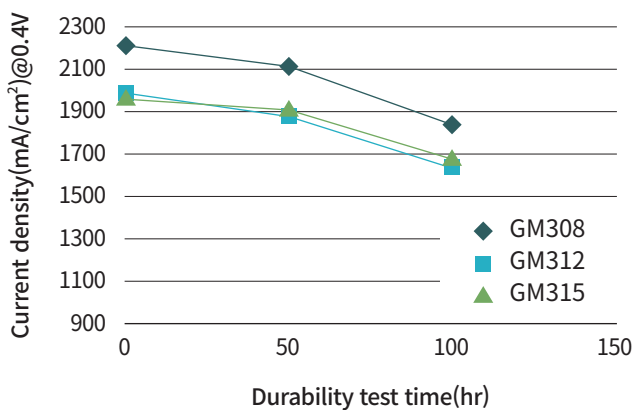
LSV GM308, 312, 315



OCV Holding GM308, 312, 315



110°C, RH20%, 100hr Performance GM308, 312, 315



110°C, RH20%, 100hr HCCD GM308, 312, 315

