

WebSeal Sealing Mat

Physical Properties and Resistance

	Low	High
Operating Temperature	-80°C	260°C
Specific Gravity	1.15	
Shore Hardness	57	
Tear Strength	Fair	

Sterilization

WebSeal may be sterilized but is produced in a chromatographically clean form and is suitable for use straight from the packet

Property	Method	Comment
Sterilization methods	Autoclave recommended	160°C
	Chemical	All common disinfectants may be suitable
	Radiation	Gamma

MicroMat CLR

Evaporation Study

Evaporation study was performed using water, acetonitrile and DMSO at two different volumes (100µL and 200µL) at three different temperatures (28°C, 4°C and -20°C for 24 hours). Plates were filled with solvent, weighed then sealed with MicroMat CLR. The sealed plates were incubated at their respective temperatures for 24 hours. Mats were removed and the plates were reweighed to determine evaporation of sample content.

Results

Temperature	Solvent	% loss after 24 hours
-20°C	Water	0.15%
	Acetonitrile	12.0%
	DMSO	-1.1%
4°C	Water	0.4%
	Acetonitrile	19.2%
	DMSO	0.8%
20°C	Water	1.0%
	Acetonitrile	34.3%
	DMSO	-1.2%

WebSeal Sealing Mat Compatibility Chart

Manufacturer	96 Round Silicone	96 Round Silicone/PTFE	96 Round PTFE for DMSO	96 Square Silicone	96 Square Silicone/PTFE	384 Square Silicone	384 Square Silicone/PTFE
Abgene	300 015	400 067	502 325				
CoStar	300 002	400 073 400 067	502 325			300 007	400 085
Greiner	300 002 300 015	400 073 400 067	502 325	300 011	400 026	300 007	400 085
Matrix	300 002 300 015	400 073 400 067		300 011	400 026		
NUNC	300 015			300 011	400 026	300 007	400 085
Porvair	300 002 300 015	400 073 400 067		300 011	400 026	300 007	400 085
Whatman	300 002 300 015	400 067		300 011	400 026		