Table S1. Complete database of byssal thread properties

Species	Thread length (mm)	Thread diameter (mm)	Thread area (mm^2)	Maximum force (N)	Total displacement (mm)	Maximum engineering stress (MPa)	Maximum true stress (MPa)	Yield stress (MPa)	Initial stiffness (MPa)	Final stiffness (MPa)	Toughness ($MJ\ m^3$)	Engineering failure strain	True failure strain	Yield strain
Mytilus edulis	5.95	123.27	0.01193	1.12923	4.84909	94.619	171.731		308.57	732.51	34.91	0.8150	0.5961	
Mytilus edulis	6.37	106.44	0.00890	1.36117	6.14978	152.973	300.657		485.75	1303.30	69.89	0.9654	0.6757	
Mytilus edulis	5.91	95.24	0.00712											
Mytilus edulis	3.99	114.36	0.01027	1.23440	5.22537	120.176	277.560		241.25	1242.45	78.02	1.3096	0.8371	
Mytilus edulis	2.97	119.55	0.01123	1.34394	4.11769	119.727	285.719		405.22	911.79	94.26	1.3864	0.8698	
Mytilus edulis	4.35	76.49	0.00460	0.97601	5.17023	212.399	464.848		861.21	1485.28	158.31	1.1886	0.7832	
Mytilus edulis	5.00	149.01	0.01744	1.71933	4.53773	98.591	188.067		307.07	624.54	46.53	0.9075	0.6458	
Mytilus edulis	4.31	146.27	0.01680											
Mytilus edulis	5.74	101.85	0.00815	1.26691	5.27240	155.501	298.334		231.10	948.29	71.41	0.9185	0.6516	
Mytilus edulis	13.00	221.85	0.03866											
Mytilus edulis	4.59	168.81	0.02238											
Mytilus edulis	7.54	109.90	0.00949	1.26169	7.12932	133.005	258.765		453.78	1201.72	56.76	0.9455	0.6655	
Mytilus edulis	5.51	129.46	0.01316	0.97097	4.69504	73.764	136.618		286.78	641.68	28.82	0.8521	0.6163	
Mytilus edulis	3.29	137.87	0.01493	1.26458	2.72134	84.706	154.771		319.45	600.46	35.51	0.8272	0.6028	
Mytilus edulis	2.43	170.30	0.02278											
Mytilus edulis	1.99	162.38	0.02071	1.41659	1.30066	68.405	113.115		231.46	577.57	23.21	0.6536	0.5030	
Mytilus edulis	2.93	126.73	0.01261	0.78030	1.96721	61.860	103.394		271.02	483.36	21.18	0.6714	0.5137	
Mytilus edulis	2.43	122.77	0.01184	1.36462	1.94775	115.275	207.673		341.66	834.55	45.67	0.8015	0.5886	
Mytilus edulis	7.05	132.02	0.01369	1.18339	6.81169	86.449	169.976	28.29	252.15	744.32	40.85	0.9662	0.6761	0.1161
Mytilus edulis	4.89	86.15	0.00583	0.95015	4.55899	163.001	314.968	68.65	560.19	1058.42	87.26	0.9323	0.6587	0.1231
Mytilus edulis	5.08	167.34	0.02199	1.01060	4.66764	45.950	88.171	20.92	150.94	336.84	24.09	0.9188	0.6517	0.1409
Mytilus edulis	3.44	106.93	0.00898	1.07627	4.07404	119.848	261.787	57.90	328.83	770.03	82.72	1.1843	0.7813	0.1771
Mytilus edulis	3.88	141.04	0.01562	1.26328	3.87312	80.859	161.574	30.26	204.81	597.35	41.80	0.9982	0.6923	0.1503
Mytilus edulis	4.30	153.62	0.01853											
Mytilus edulis	4.02	136.14	0.01456											
Mytilus edulis	3.31	136.61	0.01466											
Mytilus edulis	3.07	153.42	0.01849											
Mytilus edulis	2.86	78.13	0.00479	0.90012	2.78469	187.748	370.552	53.56	405.31	1111.43	96.81	0.9737	0.6799	0.1266
Mytilus edulis	3.16	127.28	0.01272											
Mytilus edulis	5.70	62.66	0.00308	0.36525	5.65701	118.446	235.998	44.22	394.88	897.39	61.20	0.9925	0.6894	0.1210
Mytilus edulis	3.95	60.40	0.00287	0.28216	3.87623	98.476	195.112	40.41	373.49	482.10	55.18	0.9813	0.6838	0.1267
Mytilus edulis	3.86	73.76	0.00427											
Mytilus edulis	3.58	67.69	0.00360	0.47135	3.52749	130.979	260.036	92.24	291.18	697.31	69.08	0.9853	0.6858	0.3076
Mytilus edulis	3.51	69.64	0.00381	0.39888	3.47887	104.721	208.513	60.37	154.41	614.77	52.44	0.9911	0.6887	0.3037
Mytilus edulis	5.03	168.82	0.02238	0.84694	4.61254	37.837	72.534	14.91	106.47	244.04	18.52	0.9170	0.6508	0.1439
Mytilus edulis	4.74	109.41	0.00940											
Mytilus edulis	5.42	109.07	0.00934	0.61135	4.73575	65.432	122.604	21.55	246.86	469.40	28.85	0.8738	0.6279	0.1098
Mytilus edulis	15.68	176.24	0.02439											
Mytilus edulis	10.48	118.30	0.01099											
Mytilus edulis	12.74	201.91	0.03202											
Mytilus edulis	12.32	211.72	0.03521											
Mytilus edulis	11.36	223.29	0.03916											
Mytilus edulis	9.84	202.97	0.03236											
Mytilus edulis	11.64	216.39	0.03678											
Mytilus edulis	9.68	132.92	0.01388											
Mytilus edulis	9.65	114.94	0.01038											
Mytilus edulis	8.90	129.22	0.01311											
Mytilus edulis	7.58	138.62	0.01509											
Mytilus edulis	10.09	139.18	0.01521											
Mytilus edulis	9.83	127.73	0.01281											
Mytilus edulis	7.58	169.90	0.02267											
Mytilus edulis	9.84	224.77	0.03968											
Mytilus edulis	8.74	57.15	0.00257											
Mytilus edulis	8.15	73.44	0.00424											
Mytilus edulis	9.38	95.85	0.00722											
Mytilus californianus	11.03	162.87	0.02083	1.51435	8.53079	72.687	128.904	38.67	512.59	672.20	31.96	0.7734	0.5729	0.0948
Mytilus californianus	12.89	172.03	0.02324	2.32569	14.24610	100.059	210.644	30.47	427.59	800.96	50.47	1.1052	0.7444	0.0962
Mytilus californianus	8.03	165.84	0.02160											
Mytilus californianus	8.53	159.02	0.01986	1.42642	6.76300	71.821	128.765	30.04	486.45	592.14	29.12	0.7928	0.5838	0.0913
Mytilus californianus	17.20	142.77	0.01601	1.67643	21.03828	104.718	232.805	24.91	378.30	1086.22	52.82	1.2232	0.7989	0.0970
Mytilus californianus	7.94	85.89	0.00579	1.51519	9.32712	261.512	568.710	37.63	408.12	2135.38	129.46	1.1747	0.7769	0.0980
Mytilus californianus	12.15	155.83	0.01907											
Mytilus californianus	9.57	87.46	0.00601											
Mytilus californianus	8.17	115.63	0.01050	1.16941	8.50809	111.362	227.333		118.41	929.87	46.60	1.0414	0.7136	
Mytilus californianus	14.62	130.25	0.01332	1.36402	11.21990	102.371	180.933	30.73	540.69	663.40	41.76	0.7674	0.5695	0.0752
Mytilus californianus	15.00	131.93	0.01367	1.88715	12.97468	138.048	257.457	29.12	810.09	883.07	63.00	0.8650	0.6232	0.0372
Mytilus californianus	12.11	151.53	0.01803	1.37417	8.74170	76.200	131.205	31.80	410.73	409.54	31.69	0.7219	0.5434	0.0938
Mytilus californianus	12.19	128.05	0.01288	2.07095	11.31396	160.813	310.069	54.00	814.48	1185.47	74.78	0.9281	0.6566	0.0861
Mytilus californianus	9.96	135.99	0.01452	1.42830	7.60157	98.336	173.388	46.54	581.01	834.48	43.73	0.7632	0.5671	0.0908
Mytilus californianus	13.85	131.37	0.01355											
Mytilus californianus	14.84	244.57	0.04698											
Mytilus californianus	10.36	157.92	0.01959											
Mytilus californianus	10.06	122.80	0.01184	1.26453	9.17638	106.769	204.159	37.17	497.27	636.54	50.88	0.9122	0.6482	0.0901
Mytilus californianus	17.40	215.35	0.03642											
Mytilus californianus	11.98	170.06	0.02271	1.84328	11.15336	81.152	156.704	22.16	158.11	612.99	37.99	0.9310	0.6580	0.1412
Mytilus californianus	9.46	122.59	0.01180	1.24228	8.21469	105.249	196.644	24.66	381.29	818.15	49.43	0.8684	0.6251	0.0707
Mytilus californianus	10.44	171.26	0.02304											
Mytilus californianus	9.87	144.72	0.01645	2.16596	9.67913	131.675	260.803	30.80	351.75	1010.34	61.90	0.9807	0.6834	0.1007
Mytilus californianus	15.90	147.03	0.01698											
Mytilus californianus	10.99	183.83	0.02654	0.50302	8.10432	18.952	32.928	5.21	69.18	138.85	7.94	0.7374	0.5524	0.0737
Mytilus californianus	9.40	226.49	0.04029	2.46425	7.79949	61.164	111.914	24.50	244.54	303.00	29.46	0.8297	0.6042	0.1071
Mytilus californianus	13.35	100.26	0.00789	1.48839	13.39975	188.526	377.755	43.05	548.48	1361.02	92.08	1.0037	0.6950	0.0929
Mytilus californianus	9.95	132.38	0.01376	0.56842	7.92276	41.298	74.182	13.15	116.60	242.94	18.47	0.7963	0.5857	0.1017
Mytilus californianus	9.16	150.64	0.01782	3.01471	8.49207	169.151	325.968	50.75	589.82	927.76	84.34	0.9271	0.6560	0.0887
Mytilus californianus	9.48	141.58	0.01574	2.04114	7.30638	129.652	229.576	54.76	632.99	765.60	57.49	0.7707	0.5714	0.1037
Modiolus modiolus	4.95	57.67	0.00261	0.26603	3.43978	101.845	172.618		328.14	1024.56	40.05	0.6949	0.5276	
Modiolus modiolus	4.91	60.40	0.00287	0.23352	2.55916	81.501	123.980	24.75	516.51	522.77	24.90	0.5212	0.4195	0.0502
Modiolus modiolus	2.79	40.84	0.00131	0.25411	1.99964	193.979	333.008	37.47	704.09	1105.60	76.00	0.7167	0.5404	0.0504
Modiolus modiolus	2.25	37.87	0.00113											
Modiolus modiolus	3.55	43.56	0.00149	0.26854	2.59646	180.199	311.995		487.54	788.23	75.78	0.7314	0.5489	
Modiolus modiolus	3.97	74.84	0.00440	0.24507	1.99316	55.710	83.680	19.47	284.21	501.23	16.61	0.5021	0.4068	0.0694
Modiolus modiolus	5.54	29.21	0.00067	0.17083	3.22888	254.923	403.500	42.79	839.74	1302.52	78.35	0.5828	0.4592	0.0494
Modiolus modiolus	2.94	42.57	0.00142	0.20362	2.28503	143.059	254.248		363.64	734.45	61.69	0.7772	0.5751	
Modiolus modiolus	3.49	56.97	0.00255	0.23911	4.09165	93.801	203.772		152.09	643.98	58.98	1.1724	0.7758	
Modiolus modiolus	3.93	32.11	0.00081	0.23817	2.93210	294.119	513.556		671.22	1708.86	116.67	0.7461	0.5574	
Modiolus modiolus	3.51	41.67	0.00136	0.16366	2.06123	120.005	190.477		268.08	703.23	35.96	0.5872	0.4620	
Modiolus modiolus	3.33	34.65	0.00094											
Modiolus modiolus	5.39	51.30	0.00207	0.24097	4.61547	116.583	216.413		250.53	951.43	50.55	0.8563	0.6186	
Modiolus modiolus	4.59	61.73	0.00299											

Modiolus modiolus	3.73	53.85	0.00228	0.27515	4.25220	120.813	258.539	15.54	176.05	999.66	72.09	1.1400	0.7608	0.0590
Modiolus modiolus	4.45	69.64	0.00381											
Modiolus modiolus	3.59	41.24	0.00134	0.15807	4.40951	118.336	263.686	20.13	288.35	892.26	76.67	1.2283	0.8012	0.0707
Modiolus modiolus	2.54	44.53	0.00156											
Modiolus modiolus	5.51	49.23	0.00190	0.19552	4.27677	102.719	182.448	22.01	462.78	502.65	41.70	0.7762	0.5745	0.0426
Modiolus modiolus	8.39	31.54	0.00078	0.23893	7.18146	305.817	567.583	69.98	1213.39	2114.16	133.77	0.8560	0.6184	0.0560
Modiolus modiolus	9.47	40.76	0.00130	0.21844	6.98035	167.407	290.802	39.85	937.22	988.91	65.19	0.7371	0.5522	0.0426
Modiolus modiolus	8.50	45.85	0.00165	0.14327	5.03259	86.772	138.147	24.41	588.79	579.52	29.02	0.5921	0.4650	0.0419
Modiolus modiolus	8.03	28.18	0.00062	0.21537	6.55875	345.309	627.351	78.98	1772.94	2082.24	150.15	0.8168	0.5971	0.0441
Modiolus modiolus	5.57	44.64	0.00157											
Modiolus modiolus	5.43	28.96	0.00066	0.18593	4.39358	282.271	510.664	53.16	1237.41	2292.00	118.89	0.8091	0.5928	0.0404
Modiolus modiolus	7.77	50.37	0.00199											
Modiolus modiolus	7.00	64.22	0.00324	0.20018	5.41858	61.801	109.641	13.22	322.72	352.77	24.86	0.7741	0.5733	0.0508
Modiolus modiolus	4.95	37.38	0.00110											
Perna canaliculus	6.07	61.88	0.00301											
Perna canaliculus	6.51	95.58	0.00718											
Perna canaliculus	7.25	116.83	0.01072											
Perna canaliculus	6.34	123.43	0.01197											
Perna canaliculus	8.61	101.67	0.00812											
Perna canaliculus	10.74	88.66	0.00617											
Perna canaliculus	15.17	116.58	0.01067											
Perna canaliculus	6.07	169.06	0.02245											
Perna canaliculus	12.57	147.32	0.01705											
Perna canaliculus	9.40	91.93	0.00664											
Perna canaliculus	5.94	75.25	0.00445											
Perna canaliculus	8.61	134.62	0.01423											
Perna canaliculus	6.23	175.99	0.02433											
Perna canaliculus	10.26	243.75	0.04666											
Perna canaliculus	6.88	202.24	0.03212											
Perna canaliculus	8.20	97.91	0.00753											
Perna canaliculus	10.78	191.71	0.02887											
Perna canaliculus	6.72	230.70	0.04180											
Perna canaliculus	12.50	158.17	0.01965											
Perna canaliculus	9.35	110.25	0.00955											
Perna canaliculus	12.07	140.60	0.01553											
Perna canaliculus	11.05	82.51	0.00535											
Perna canaliculus	14.03	171.91	0.02321											
Perna canaliculus	11.54	85.02	0.00568											
Perna canaliculus	15.33	97.53	0.00747											
Perna canaliculus	14.38	176.37	0.02443											
Perna canaliculus	9.04	178.73	0.02509											
Perna canaliculus	10.45	79.32	0.00494											
Perna canaliculus	16.97	172.61	0.02340											
Perna canaliculus	10.90	133.17	0.01393											
Perna canaliculus	12.95	77.74	0.00475											
Perna canaliculus	10.68	101.73	0.00813											
Perna canaliculus	9.11	75.50	0.00448											
Perna canaliculus	11.69	103.52	0.00842											
Ctenoides mitis	4.35	54.54	0.00234											
Ctenoides mitis	2.83	84.42	0.00560	0.09278	4.99854	16.576	45.853	3.96	30.85	61.94	17.31	1.7663	1.0175	0.1116
Ctenoides mitis	4.80	36.45	0.00104											
Ctenoides mitis	6.65	26.03	0.00053											
Ctenoides mitis	2.98	32.08	0.00081											
Ctenoides mitis	2.73	92.08	0.00666	0.08766	4.59307	13.163	35.310	1.39	22.37	51.52	11.23	1.6824	0.9867	0.0627
Ctenoides mitis	3.56	41.00	0.00132											
Ctenoides mitis	6.76	91.65	0.00660	0.10368	5.57104	15.716	28.667	5.99	120.29	51.88	8.63	0.8241	0.6011	0.0471
Ctenoides mitis	5.20	72.74	0.00416	0.11104	6.51333	26.720	60.188	4.47	105.98	196.19	17.56	1.2526	0.8121	0.0424
Ctenoides mitis	4.94	61.96	0.00302	0.11719	6.94312	38.865	93.490	8.40	138.59	410.56	27.25	1.4055	0.8778	0.0636
Ctenoides mitis	10.03	32.39	0.00082	0.04033	9.64350	48.952	96.017	12.46	301.32	279.85	27.34	0.9615	0.6737	0.0390
Ctenoides mitis	9.28	83.17	0.00543	0.17475	9.43428	32.166	64.868	7.60	140.72	310.90	15.80	1.0166	0.7014	0.0533
Ctenoides mitis	7.38	76.24	0.00457	0.08505	8.30710	18.630	39.600	3.04	49.84	187.18	10.15	1.1256	0.7541	0.0562
Ctenoides mitis	5.93	85.05	0.00568	0.15817	11.79245	27.841	83.207	4.27	101.16	149.38	28.52	1.9886	1.0948	0.0405
Ctenoides mitis	7.16	137.66	0.01488	0.52612	10.56309	35.349	84.329	9.23	242.69	133.71	33.37	1.4753	0.9064	0.0382
Ctenoides mitis	4.67	84.30	0.00558											
Ctenoides mitis	5.71	41.29	0.00134											
Ctenoides mitis	6.61	99.01	0.00770	0.17922	7.48807	23.278	49.649	4.45	78.90	288.53	11.75	1.1328	0.7575	0.0500
Ctenoides mitis	6.19	98.52	0.00762	0.20233	7.39886	26.541	58.265	5.80	72.28	266.62	14.76	1.1953	0.7863	0.0774
Ctenoides mitis	5.82	285.26	0.06391	1.34939	5.95052	21.114	42.701	4.19	168.87	231.45	10.03	1.0224	0.7043	0.0624
Ctenoides mitis	5.36	215.19	0.03637	0.48672	5.24346	13.383	26.475	2.43	32.10	157.66	6.20	0.9783	0.6822	0.0642
Ctenoides mitis	6.48	109.41	0.00940											
Ctenoides mitis	4.93	107.11	0.00901	0.38611	5.09742	42.851	87.158	9.52	126.37	506.30	21.10	1.0340	0.7100	0.0699
Ctenoides mitis	7.74	80.02	0.00503											
Ctenoides mitis	7.04	284.95	0.06377											
Ctenoides mitis	4.92	42.13	0.00139											
Ctenoides mitis	4.64	253.85	0.05061											
Ctenoides mitis	4.36	200.91	0.03170	0.07396	5.13960	2.333	5.083	0.58	7.79	9.20	1.67	1.1788	0.7788	0.0742
Ctenoides mitis	3.94	97.33	0.00744	0.14755	5.31483	19.832	46.584	3.42	52.71	262.85	12.88	1.3489	0.8540	0.0646
Ctenoides mitis	6.53	98.01	0.00754	0.15398	7.81563	20.409	44.837	2.46	36.47	225.12	10.92	1.1969	0.7870	0.0616
Geukensia demissa	5.38	24.75	0.00048											
Geukensia demissa	10.17	41.68	0.00136	0.06636	8.86675	48.635	91.037	14.26	191.04	205.12	29.09	0.8719	0.6269	0.0758
Geukensia demissa	4.69	37.16	0.00108											
Geukensia demissa	5.40	44.89	0.00158											
Geukensia demissa	7.38	21.43	0.00036	0.04007	7.99906	111.091	231.501	39.35	393.88	483.85	79.80	1.0839	0.7342	0.0961
Geukensia demissa	6.36	20.24	0.00032											
Geukensia demissa	6.40	37.25	0.00109	0.06005	5.12026	55.099	99.180	12.86	213.76	231.32	27.23	0.8000	0.5878	0.1002
Geukensia demissa	6.19	30.02	0.00071	0.05819	4.65152	82.209	135.433	16.96	365.27	296.25	45.01	0.7515	0.5604	0.0426
Geukensia demissa	6.14	25.40	0.00051	0.03535	4.86074	69.759	124.983	17.76	250.38	201.87	39.43	0.7917	0.5831	0.0639
Geukensia demissa	6.78	25.98	0.00053											
Geukensia demissa	6.09	48.23	0.00183	0.05203	5.74303	28.478	55.333	10.92	87.40	144.22	17.23	0.9430	0.6642	0.1182
Geukensia demissa	9.73	21.62	0.00037											
Geukensia demissa	7.13	21.00	0.00035	0.03024	6.63993	87.305	168.610	20.00	279.30	407.72	52.41	0.9313	0.6582	0.0605
Geukensia demissa	7.37	39.83	0.00125	0.04639	8.02338	37.234	77.770	10.04	70.27	208.11	25.01	1.0887	0.7365	0.1087
Geukensia demissa	5.58	28.39	0.00063	0.09530	4.12927	150.546	261.952	50.45	1050.87	803.19	71.75	0.7400	0.5539	0.0674
Geukensia demissa	4.47	47.69	0.00179	0.06539	2.83660	36.605	59.835	20.49	175.61	147.25	15.39	0.6346	0.4914	0.1224
Geukensia demissa	9.58	45.83	0.00165											
Geukensia demissa	8.68	65.99	0.00342	0.08637	7.77845	25.253	47.883	9.06	134.74	113.16	14.89	0.8961	0.6398	0.0954
Geukensia demissa	7.10	38.28	0.00115	0.06699	5.99106	58.205	107.319	20.47	291.92	264.40	30.81	0.8438	0.6118	0.0864
Geukensia demissa	7.12	53.12	0.00222	0.06066	6.09648	27.373	50.811	8.13	211.48	135.21	15.80	0.8562	0.6186	0.0650
Geukensia demissa	7.77	20.42	0.00033											
Geukensia demissa	10.26	25.35	0.00050	0.09028	7.05499	178.880	301.881	78.30	979.59	620.71	86.86	0.6876	0.5233	0.0998
Geukensia demissa	9.10	44.09	0.00153	0.06491	8.64443	42.513	82.898	11.07	180.46	172.70	25.84	0.9499	0.6678	0.0767
Geukensia demissa	6.96	30.48	0.00073											
Geukensia demissa	6.27	24.82	0.00048	0.07393	5.49487	152.805	286.720	52.12	478.65	671.56	84.50	0.8764	0.6293	0.1375
Geukensia demissa	7.75	57.45	0.00259											

Geukensia demissa	5.38	58.28	0.00267											
Geukensia demissa	4.34	50.01	0.00196											
Geukensia demissa	5.02	30.04	0.00071											
Geukensia demissa	6.79	46.28	0.00168	0.13816	6.87994	82.132	165.352	23.41	384.91	317.78	56.56	1.0132	0.6997	0.0661
Geukensia demissa	3.50	42.72	0.00143	0.13497	4.10649	94.163	204.643	18.53	229.20	376.36	65.61	1.1733	0.7762	0.0741
Geukensia demissa	6.88	55.40	0.00241	0.13980	7.66804	57.994	122.632	19.13	201.50	261.36	39.96	1.1145	0.7488	0.1150
Atrina rigida	7.33	27.60	0.00060											
Atrina rigida	11.51	69.97	0.00385											
Atrina rigida	7.13	76.30	0.00457	0.10470	3.61183	22.899	34.499	11.15	225.94	39.81	8.35	0.5066	0.4098	0.0534
Atrina rigida	9.65	46.54	0.00170	0.11420	6.70146	67.134	113.755	29.64	505.31	217.15	34.30	0.6945	0.5274	0.0674
Atrina rigida	6.49	43.57	0.00149	0.14252	3.06528	95.591	140.739	38.54	1048.31	70.04	30.01	0.4723	0.3868	0.0582
Atrina rigida	9.98	49.37	0.00191	0.08328	3.74969	43.502	59.847	27.04	721.84	139.35	13.94	0.3757	0.3190	0.0434
Atrina rigida	7.56	86.92	0.00593											
Atrina rigida	7.02	54.14	0.00230	0.10256	3.81781	44.550	68.779	23.81	620.98	111.07	18.94	0.5438	0.4343	0.0478
Atrina rigida	14.42	39.78	0.00124	0.12650	5.83862	101.782	142.993	42.33	1168.09	379.98	27.78	0.4049	0.3400	0.0450
Atrina rigida	7.89	68.82	0.00372	0.08961	3.20962	24.091	33.890	10.61	108.92	50.28	5.67	0.4068	0.3413	0.0875
Atrina rigida	8.06	51.49	0.00208	0.12846	4.17625	61.691	93.656	23.44	549.82	147.01	22.45	0.5181	0.4175	0.0410
Atrina rigida	6.93	57.66	0.00261											
Atrina rigida	7.84	40.11	0.00126											
Atrina rigida	8.36	70.58	0.00391											
Atrina rigida	12.30	49.18	0.00190	0.08747	3.94593	46.046	60.817	22.79	713.64	89.14	10.72	0.3208	0.2782	0.0389
Atrina rigida	7.95	64.24	0.00324	0.06502	6.25867	20.061	35.853	9.11	182.66	65.44	12.20	0.7873	0.5807	0.0682
Atrina rigida	8.91	49.67	0.00194											
Atrina rigida	9.47	47.53	0.00177	0.11327	6.52627	63.841	107.837	26.68	608.94	228.75	32.92	0.6892	0.5242	0.0509
Atrina rigida	10.18	38.69	0.00118	0.07210	6.86849	61.326	102.703	24.28	707.30	227.26	31.91	0.6747	0.5156	0.0381
Atrina rigida	15.30	52.76	0.00219	0.19236	15.59884	87.985	177.689	29.12	758.39	415.74	64.23	1.0195	0.7029	0.0455

Material properties of the byssal threads of selected bivalve molluscs. Empty cells represent missing values. 'Engineering' stress and strain (σ_E, ε_E) are defined as $\sigma_E=F/A_O$=force/unit initial area, $\varepsilon_E=\Delta L/L_O$=change in length/initial length; 'true' stress and strain (σ_T, ε_T) are defined respectively as $\sigma_T=\sigma_E\exp(\varepsilon_T)$ (assuming constant volume, i.e. a Poisson's ratio of 0.5) and $\varepsilon_T=\ln(L/L_o)$. Yield stress and strain were defined as a sharp drop in stiffness at a characteristic stress and strain level; thread stiffness was determined both for the initial loading of the thread and at thread failure. The area under the stress–strain curve (the energy absorbed per unit volume, or the toughness of the material) was determined by fitting a polynomial to the curve and integrating over the total strain. A Microsoft® Excel® version of this file is available from the authors upon request.