



Ulike 5052 Honeycomb Core – Mechanical Characteristics (Typical Values - metric)

Density	Cell Size	Foil Thickness	Stabilized Compressive Strength		Crush Strength	Shear Strength				Shear Modulus		
			MPa			MPa	MPa				MPa	
							L		W		L	W
			23°C	177°C			23°C	23°C	177°C	23°C	177°C	23°C
3.1	1/8	.0007	2.1	1.38	1	1.48	1	0.91	0.62	221	110	
4.5	1/8	.0010	4	2.62	1.86	2.38	1.65	1.55	1.03	352	172	
6.1	1/8	.0015	7.1	4.55	3.1	3.9	2.76	2.38	1.52	531	255	
8.1	1/8	.0020	10.86	7.41	5.24	5.58	3.96	3.72	2.14	772	345	
10.0	1/8	.0025	12.93	8.96	7.38	7.41	5.58	4.21	2.86	965	414	
12.0	1/8	.0030	20.13	10.69	9.65	13.48	8.96	6.55	3.03	1103	517	
2.6	5/32	.0007	1.69	1.03	0.72	1.17	0.76	0.7	0.55	165	83	
3.8	5/32	.0010	2.86	1.93	1.45	1.9	1.38	1.16	0.97	283	138	
2.0	3/16	.0007	1.24	0.69	0.48	0.84	0.55	0.49	0.45	117	62	
3.1	3/16	.0010	2.34	1.38	1	1.48	1	0.88	0.62	221	110	
4.4	3/16	.0015	3.83	2.59	1.86	2.31	1.62	1.52	1	345	165	
5.7	3/16	.0020	6	4.14	2.83	3.21	2.62	2.1	1.38	483	234	
6.9	3/16	.0025	8.17	5.38	3.93	4.14	3.45	2.62	1.9	627	290	
8.1	3/16	.0030	11.96	7.41	5.24	5.07	3.96	3.38	2.14	772	345	
2.3	1/4	.0010	1.48	0.86	0.59	1	0.62	0.61	0.48	145	76	
3.4	1/4	.0015	2.59	1.62	1.1	1.62	1.1	1	0.69	241	124	
4.3	1/4	.0020	3.76	2.52	1.72	2.24	1.62	1.41	0.97	331	165	
5.2	1/4	.0025	5.31	3.45	2.28	2.86	2.28	1.86	1.1	427	214	
6.0	1/4	.0030	7.65	4.48	2.96	3.69	2.69	2.41	1.45	517	248	
7.9	1/4	.0040	10.38	7.07	4.96	4.9	3.79	3.1	2.07	745	338	
1.6	3/8	.0010	0.68	0.48	0.34	0.61	0.41	0.35	0.24	90	41	
2.3	3/8	.0015	1.41	0.86	0.59	1	0.62	0.61	0.48	145	76	
3.0	3/8	.0020	2.17	1.31	0.93	1.41	0.97	0.88	0.59	207	103	
3.7	3/8	.0025	2.86	1.83	1.38	1.76	1.31	1.14	0.72	276	138	
4.2	3/8	.0030	3.9	2.34	1.65	2.17	1.59	1.41	0.9	324	159	
5.4	3/8	.0040	5.58	3.72	2.48	3	2.45	1.97	1.24	455	221	
6.5	3/8	.0050	7	5.17	3.52	3.83	3.03	2.48	1.83	572	276	
4.0	1/2	.0040	2.76	2.21	1.52	2	1.52	1.17	0.83	303	152	