

of ECA Honeycomb

(metrical, test specimen thickness 12.7 mm)

Product designation  cell size-density mm      kg/m <sup>3</sup> (µm)				Compression		Plate Shear								
				bare		L-direction				W-direction				
				strength (N/mm <sup>2</sup> )		strength (N/mm <sup>2</sup> )		modulus (N/mm <sup>2</sup> )		strength (N/mm <sup>2</sup> )		modulus (N/mm <sup>2</sup> )		
		min	typ	min	typ	min	typ	min	typ	min	typ			
ECA	3.2	-	29	(38)	0.54	0.80	0.52	0.62	22	27	0.28	0.38	12	16
ECA	3.2	-	48	(51)	1.90	2.10	1.16	1.32	38	48	0.62	0.72	24	30
ECA	3.2	-	64	(51)	3.70	4.50	1.48	1.78	50	64	0.82	0.97	30	38
ECA	3.2	-	64	(76)	3.10	3.90	1.60	1.90	60	68	0.94	1.05	38	44
ECA	3.2	-	80	(76)	4.70	5.50	1.95	2.35	68	80	1.05	1.25	38	48
ECA	3.2	-	96	(76)	6.60	7.44	2.45	2.80	86	96	1.42	1.68	56	68
ECA	3.2	-	123	(76)	10.00	11.80	2.90	3.35	98	118	1.76	1.94	71	84
ECA	3.2	-	128	(76)	11.30	12.88	2.95	3.40	104	128	1.78	2.05	74	87
ECA	3.2	-	144	(76)	13.20	15.20	3.05	3.50	110	128	1.90	2.20	80	94
ECA	3.2	-	200	(76)	23.00	26.60	3.60	4.00	120	138	2.20	2.70	84	98
ECA	4.0	-	29	(51)	0.60	0.80	0.45	0.56	18	26	0.26	0.34	11	14
ECA	4.0	-	48	(51)	2.26	2.68	1.06	1.20	34	42	0.56	0.68	22	28
ECA	4.0	-	64	(76)	3.90	4.65	1.44	1.70	48	58	0.80	0.90	30	40
ECA	4.0	-	80	(76)	5.10	5.70	1.90	2.50	66	78	0.98	1.26	36	44
ECA	4.0	-	123	(102)	9.30	10.80	3.40	3.85	110	125	1.86	2.10	58	68
ECA	4.0	-	128	(102)	10.00	11.50	3.50	3.90	115	130	1.90	2.20	60	70
ECA	4.0	-	144	(102)	13.00	16.00	3.60	4.00	120	135	2.00	2.40	70	82
ECA	4.8	-	32	(51)	0.90	1.15	0.58	0.76	23	31	0.36	0.42	16	22
ECA	4.8	-	48	(51)	2.60	2.85	0.98	1.14	34	40	0.56	0.66	22	28
ECA	4.8	-	64	(76)	3.40	4.40	1.70	2.00	52	64	0.92	1.14	34	46
ECA	4.8	-	96	(76)	8.40	9.00	2.26	2.56	78	84	1.32	1.48	46	56
ECA	4.8	-	96	(102)	7.30	8.00	2.52	2.85	88	94	1.44	1.68	56	64
ECA	4.8	-	123	(127)	9.30	10.80	3.40	3.85	110	125	1.86	2.10	58	68
ECA	6.4	-	24	(51)	0.54	0.70	0.34	0.52	14	20	0.18	0.26	11	14
ECA	6.4	-	32	(51)	0.80	1.06	0.54	0.76	22	32	0.30	0.40	12	20
ECA	6.4	-	50	(76)	2.15	2.60	1.00	1.26	30	44	0.56	0.72	20	28
ECA	6.4	-	64	(76)	3.40	4.60	1.54	1.92	54	66	0.79	1.10	32	40
ECA	9.6	-	24	(76)	0.52	0.66	0.32	0.52	13	21	0.16	0.26	9	14
ECA	9.6	-	32	(76)	0.68	1.06	0.56	0.77	18	30	0.29	0.38	11	17
ECA	9.6	-	48	(76)	1.80	2.20	1.15	1.30	30	41	0.66	0.80	20	26
ECA	12.8	-	32	(127)	0.75	0.95	0.46	0.56	16	20	0.26	0.30	9	12
ECA	12.8	-	64	(127)	2.80	3.40	1.60	1.82	52	64	0.88	1.15	26	36
ECA	19.2	-	24	(127)	0.50	0.62	0.50	0.60	11	16	0.22	0.28	9	11
ECA	19.2	-	32	(127)	0.70	0.92	0.60	0.80	18	28	0.32	0.48	14	22
ECA-R	4.8	-	29	(51)	0.60	0.85	0.31	0.42	9	14	0.32	0.44	14	24
ECA-R	4.8	-	48	(51)	2.30	2.80	0.66	0.74	18	24	0.72	0.82	36	44
ECA-R	4.8	-	64	(51)	3.80	4.60	0.72	0.84	22	26	0.90	1.04	48	56
ECA-R	6.4	-	48	(51)	2.30	2.80	0.66	0.74	15	22	0.72	0.78	33	42
ECA-R	6.4	-	56	(51)	2.80	4.10	0.74	0.94	18	24	0.78	0.92	36	46
ECA-R	6.4	-	64	(51)	3.20	4.50	0.82	0.92	21	26	0.92	1.02	40	56

This table presents guarantee values of ECA honeycomb obtained from testing specimens of 12.7mm. thickness at RT. All data are representative at the nominal product density. Data is based on results gained from experience and tests and is believed to be accurate yet without acceptance of liability for loss or damage incurred and attributable to reliance thereon as conditions of use lie outside our control.