

PORON® Urethane Foams

Handheld Electronics Gap-Filling Specification Table

This Table is intended to guide designers in selecting appropriate PORON® Urethane foams to fill the gap thickness required in an application. For each final thickness increment, recommended options to fill that gap are listed, in ascending order of compressive force required.

Final Thickness (mm)	CFD (N/mm ²)	Deflection (%)	Original Thickness (mm)	PORON Material Description
0.13	0.0983	74	0.50	15-06021 P
	0.4841	83	0.75	15-06030 P
0.15	0.0475	70	0.50	15-06021 P
	0.1806	70	0.50	92-09020 P
	0.2459	80	0.75	15-06030 P
	0.3296	70	0.50	92-12020 P
	0.4834	85	1.00	15-06039 P
0.20	0.0139	60	0.50	15-06021 P
	0.0421	60	0.5	92-09020 P
	0.0591	73	0.75	15-06030 P
	0.0702	60	0.50	92-12020 P
	0.1401	80	1.00	15-06039 P
	0.1620	73	0.75	92-09030 P
	0.2577	33	0.30	92-30012 P
	0.3394	73	0.75	92-12030 P
	0.3897	80	1.00	92-09039 P
	0.30	0.0045	40	0.50
0.0101		40	0.50	92-09020 P
0.0126		60	0.75	15-06030 P
0.0168		40	0.50	92-12020 P
0.0321		60	0.75	92-09030 P
0.0322		70	1.00	15-06039 P
0.0538		60	0.75	92-12030 P
0.0697		70	1.00	92-09039 P
0.1204		70	1.00	92-12039 P
0.1441		70	1.00	92-15039 P
0.1516		43	0.53	92-25021 P
0.2050		76	1.24	92-12049 P
0.2231		51	0.61	92-25024 P
0.2554		80	1.50	92-12059 P
0.4350		62	0.79	92-25031 P
0.40		0.0025	20	0.50
	0.0055	20	0.5	92-09020 P
	0.0059	47	0.75	15-06030 P
	0.0099	20	0.50	92-12020 P
	0.0141	47	0.75	92-09030 P
	0.0144	60	1.00	15-06039 P
	0.0218	47	0.75	92-12030 P
	0.0272	60	1.00	92-09039 P
	0.0410	60	1.00	92-12039 P
	0.0423	60	1.00	92-15039 P
	0.0603	68	1.24	92-12049 P
	0.0731	25	0.53	92-25021 P
	0.0954	34	0.61	92-25024 P
	0.0964	73	1.50	92-12059 P
	0.1467	49	0.79	92-25031 P
	0.5290	62	1.04	92-25041 P
	0.6715	57	0.94	30-25037 P

Final Thickness (mm)	CFD (N/mm ²)	Deflection (%)	Original Thickness (mm)	PORON Material Description
0.50	0.0038	33	0.75	15-06030 P
	0.0089	50	1.00	15-06039 P
	0.0092	33	0.75	92-09030 P
	0.0141	33	0.75	92-12030 P
	0.0152	50	1.00	92-09039 P
	0.0194	50	1.00	92-15039 P
	0.0216	50	1.00	92-12039 P
	0.0277	60	1.24	92-12049 P
	0.0512	67	1.50	92-12059 P
	0.0614	18	0.61	92-25024 P
	0.0884	37	0.79	92-25031 P
	0.1915	52	1.04	92-25041 P
	0.3167	47	0.94	30-25037 P
	0.6627	58	1.19	30-25047 P
0.60	0.0027	20	0.75	15-06030 P
	0.0065	40	1.00	15-06039 P
	0.0069	20	0.75	92-09030 P
	0.0108	20	0.75	92-12030 P
	0.0108	40	1.00	92-09039 P
	0.0124	40	1.00	92-15039 P
	0.0150	40	1.00	92-12039 P
	0.0163	52	1.24	92-12049 P
	0.0307	60	1.50	92-12059 P
	0.0633	24	0.79	92-25031 P
	0.1123	42	1.04	92-25041 P
	0.2108	36	0.94	30-25037 P
	0.2963	50	1.19	30-25047 P
0.70	0.0018	7	0.75	15-06030 P
	0.0050	30	1.00	15-06039 P
	0.0085	30	1.00	92-09039 P
	0.0094	30	1.00	92-15039 P
	0.0115	30	1.00	92-12039 P
	0.0118	44	1.24	92-12049 P
	0.0173	11	0.79	92-25031 P
	0.0223	53	1.50	92-12059 P
	0.0817	33	1.04	92-25041 P
	0.1603	26	0.94	30-25037 P
	0.1860	41	1.19	30-25047 P
0.2522	57	1.63	30-20064 P	

For further material options please refer to the Product Availability brochure (Pub #17-082) that can be found on Rogers' Web site www.rogerscorporation.com.

Note: The final thickness does not include the adhesive that may be required for final assembly. All materials are supported on a 2-mil polyester (PET) film.

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Final Thickness (mm)	Original Thickness (mm)		PORON Material Description
	CFD (N/mm ²)	Deflection (%)	
0.80	0.0041	20	15-06039 P
	0.0072	20	92-09039 P
	0.0076	20	92-15039 P
	0.0091	20	92-12039 P
	0.0094	15	30-25037 P
	0.0100	35	92-12049 P
	0.0173	47	92-12059 P
	0.0648	23	92-25041 P
	0.1405	33	30-25047 P
	0.1815	51	30-20064 P
0.90	0.0076	27	92-12049 P
	0.0146	40	92-12059 P
	0.0475	13	92-25041 P
	0.1118	24	30-25047 P
	0.1482	45	30-20064 P
1.00	0.0065	19	92-12049 P
	0.0124	33	92-12059 P
	0.0874	16	30-25047 P
	0.1186	39	30-20064 P
1.10	0.0111	27	92-12059 P
	0.1018	33	30-20064 P
1.20	0.0099	20	92-12059 P
	0.0894	26	30-20064 P
1.30	0.0087	13	92-12059 P
	0.0776	20	30-20064 P
1.40	0.0576	14	30-20064 P

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