	Manufacturer	Product	CONTAG in stock	CONTAG UL Approved	Halogen Free	CAF resistant	Filled	UL94 Flammability	Tg Glass Transition Temp °C by DSC (*=by TMA, **=by DMA)	Td Decomposition Temp by TGA °C	T260 Time to Delaminate with/without Cu (by TMA, minutes)	T288 Time to Delaminate with/without Cu (by TMA, minutes)	T300 Time to Delaminate with/without Cu (by TMA, minutes)	MOT Max Operating Temperature (by UL 796)	RTI Relative Thermal Index (by UL 796)	Dk 1 GHz	Dk 2 GHz	Dk 5 GHz	Dk 10 GHz	Dk 12 GHz	Loss	Df 1 GHz	Df 2 GHz	Df 5 GHz	Df 10 GHz	Df 12 GHz	Thermal Conductivity Z-axis (W/mK)	Dielectric Breakdown (kV)	Electric Strength (kV/mm)	CTI (Comparative Tracking Index in V, nach UL 746C)	Water Absorption (%)	CTE Z-axis (ppm/°C) Pre TG	CTE Z-axis 50-260°C (%)	Highest of CTE X/Y-axis (ppm/°C) Pre TG	UL / ANSI	IPC-4101 Slash Sheets	IPC-4103 Slash Sheets
FR4 Mid Tg	**VENTEC**	VT-481	x	-	-	x	x	V-0	155	345	>60 / -	25 / -	- / -	130	-	4.30	-	-	-	-	Standard	0.0150	-	-	-	-	-	60	54	175-250	0.12	45	2.60	11/13	FR-4.0	/97 /98 /99 /101	-
	VENTEC	VT-441C	x	-	x	x	x	V-0	155	385	>60 / -	>10 / -	- / -	130	-	4.60	-	-	-	-	Mid	0.0110	-	-	-	-	-	60	54	600	0.18	35	2.2	-	FR-4.1	/127 /128	-
	PANASONIC	Hiper-M (R-1755M / R-1650M)	-	x	-	x	x	V-0	153	355	- / -	18 / 110	- / -	130	-	4.60	4.50	-	4.40	-	-	0.0140	0.0150	-	0.0190	-	0.57	60	70	200	0.11	40	3.0	13/15	FR-4.0	/99 (/97 /98 /101)	-
	PANASONIC	Halogen-Free (R-1566W / R-1551W)	-	-	x	x	x	V-0	148	350	- / -	3 / >120	- / -	130	-	4.60	4.60	-	4.60	-	-	0.0100	0.0120	-	0.0160	-	0.62	52	70	500	0.14	40	2.8	13/15	FR-4.1	/127 (/128)	-
FR4 High Tg	**EMC**	EM-827(I)	x	x	-	x	x	V-0	175	350	- / -	>25 / >30	- / -	130	-	4.30	-	-	-	-	-	0.0190	-	-	-	-	0.44	60	-	175-249	0.12	45	2.6	12/15	FR-4.0	/98 /99 /101 /126	/250 /550
	PANASONIC	Halogen-Free (R-1566S / R-1551S)	-	-	x	x	x	V-0	175	355	- / -	10 / -	- / -	130	-	4.70	-	-	-	-	-	0.0100	-	-	-	-	-	-	-	600	-	-	-	13/15	FR-4.1	/127	-
High Speed Digital	**PANASONIC**	Megtron-6 (R-5775 / R-5670)	x	-	-	x	x	V-0	185	410	- / -	>120 / >120	- / -	-	-	3.70	3.60	-	3.60	3.60	UltraLow	0.0020	0.0020	-	0.0040	0.0040	0.42	60	69	200	0.14	45	2.8	16/16	Non-ANSI	/102 (/91)	-
	PANASONIC	Megtron-7N (R-5785N / R-5680N)	-	-	-	x	x	V-0	200	400	- / -	>120 / >120	- / -	-	-	3.37	-	-	-	3.35	UltraLow	0.0010	-	-	-	0.0020	0.40	-	-	200	0.06	42	-	16/16	Non-ANSI	/102 (/91)	-
	ISOLA	I-Tera MT40	-	-	-	x	x	V-0	215	360	- / >60	- / >60	- / -	-	130	-	3.45	3.45	3.45	-	VeryLow	-	0.0031	0.0031	0.0031	-	0.61	45.4	45	175-249	0.10	55	2.8	12	Non-ANSI	/102	/17
RF / Microwave	**ROGERS**	RO3003	x	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	180	-	-	-	3.00	-	UltraLow	-	-	-	0.0010	-	0.50	-	-	-	0.04	25	-	17/16	Non-ANSI	-	-
	ROGERS	RO4003C	x	-	x	x	x	N/A	>280*	425	- / -	- / -	- / -	-	-	-	-	-	3.38	-	UltraLow	-	0.0021	-	0.0027	-	0.71	-	31.2	-	0.06	46	-	11/14	-	-	/10
	ROGERS	RO4350B	x	-	k.A.	x	x	V-0	>280*	390	- / -	- / -	- / -	130	-	-	-	-	3.48	-	UltraLow	-	0.0031	-	0.0037	-	0.69	-	31.2	-	0.06	32	-	10/12	Non-ANSI	-	/11 /240
	ROGERS	RO3006	-	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	180	-	-	-	6.15	-	UltraLow	-	-	-	0.0020	-	0.79	-	-	-	0.02	24	-	17/17	Non-ANSI	-	-
	ROGERS	RO3010	-	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	180	-	-	-	10.2	-	UltraLow	-	-	-	0.0022	-	0.95	-	-	-	0.05	16	-	13/11	Non-ANSI	-	-
	ROGERS	RO3206	-	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	180	-	-	-	6.15	-	UltraLow	-	-	-	0.0027	-	0.67	-	-	-	<0.1	34	-	13/13	Non-ANSI	-	-
	ROGERS	RO3210	-	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	180	-	-	-	10.2	-	UltraLow	-	-	-	0.0027	-	0.81	-	-	-	<0.1	34	-	13/13	Non-ANSI	-	-
	ROGERS	RO4003C LoPro	-	-	x	x	x	N/A	>280*	425	- / -	- / -	- / -	-	-	-	-	-	3.38	-	UltraLow	-	0.0021	-	0.0027	-	0.64	-	31.2	-	0.06	46	-	11/14	-	-	-
	ROGERS	RO4350B LoPro	-	-	k.A.	x	-	V-0	>280*	390	- / -	- / -	- / -	130	-	-	-	-	3.48	-	UltraLow	-	0.0031	-	0.0037	-	0.62	-	31.2	-	0.06	35	-	14/16	Non-ANSI	-	-
	ROGERS	RO4360G2	-	-	k.A.	k.A.	x	V-0	>280*	407	- / -	>30 / -	- / -	-	-	-	-	-	6.15	-	UltraLow	-	-	-	0.0038	-	0.75	-	30.9	-	0.08	28	-	13/14	Non-ANSI	-	/11 /240
	ROGERS	RO4450F Bondply	-	-	k.A.	x	-	V-0	>280*	390	- / -	- / -	- / -	-	-	-	-	-	3.52	-	UltraLow	-	-	-	0.0040	-	0.65	-	39.4	-	0.09	50	-	19/17	-	-	/11 /240
	ROGERS	RO4534	-	-	x	k.A.	x	NON FR	>280*	-	- / -	- / -	- / -	-	-	-	-	-	3.40	-	UltraLow	-	-	-	0.0027	-	0.60	-	>19.7	-	0.06	46	-	11/14	-	-	-
	ROGERS	RT/duroid 5870	-	-	k.A.	k.A.	k.A.	V-0	-	500	- / -	- / -	- / -	-	130	-	-	-	2.33	-	UltraLow	-	-	-	0.0012	-	0.22	-	-	-	0.02	173	-	22/28	Non-ANSI	-	-
	ROGERS	RT/duroid 5880	-	-	k.A.	k.A.	k.A.	V-0	-	500	- / -	- / -	- / -	-	130	-	-	-	2.20	-	UltraLow	-	-	-	0.0009	-	0.20	-	-	-	0.02	237	-	31/48	Non-ANSI	-	-
	ROGERS	RT/duroid 6002	-	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	180	-	-	-	2.94	-	UltraLow	-	-	-	0.0012	-	0.60	-	-	-	0.02	24	-	16/16	Non-ANSI	-	-
	ROGERS	RT/duroid 6006	-	-	k.A.	k.A.	x	V-0	-	500	- / -	- / -	- / -	-	-	-	-	-	6.15	-	UltraLow	-	-	-	0.0027	-	0.49	-	-	-	0.05	117	-	47/34	Non-ANSI	-	-
	ROGERS (ARLON)	AD255C	-	-	k.A.	k.A.	x	V-0	-	495	- / -	>60 / -	- / -	-	-	-	-	-	2.55	-	UltraLow	-	-	-	0.0014	-	0.30	>45	-	-	0.04	50	-	16/16		-	-
	ROGERS (ARLON)	TC350	-	-	k.A.	k.A.	x	V-0	-	567	>60 / -	>60 / -	>60 / -	-	-	3.50	3.50	3.50	3.50	-	UltraLow	-	0.0018	-	0.0020	-	0.72	40	31	-	0.05	23	1.2	7/7	Non-ANSI	-	-
	ROGERS (ARLON)	TC600	-	-	k.A.	k.A.	x	V-0	-	572	>60 / -	>60 / -	>60 / -	-	-	6.15	6.15	6.15	6.15	-	UltraLow	-	0.0017	-	0.0020	-	1.10	62	34	-	0.02	35	1.5	9/9	Non-ANSI	-	-
	ISOLA	Astra MT77	-	-	-	-	-	V-0	200	360	- / >60	- / >60	- / -	-	130	-	3.00	-	3.00	-	VeryLow	-	0.0017	-	0.0017	-	0.45	>50	45	175-249	0.10	50-70	-	12	Non-ANSI	-	/17
	ISOLA	I-Tera MT40 (RF/MW)	-	-	-	x	x	V-0	215	360	- / >60	- / >60	- / -	-	130	3.38	3.45	3.60	3.75	-	VeryLow	0.0028	0.0031	0.0035	0.0035	-	0.61	45.4	45	175-249	0.10	55	2.8	12	Non-ANSI	-	/17
Polyimide / Stretch	**PANASONIC**	Felios (R-F775 + R-F770 / ------)	x	-	x	x	-	V-0	350**	584	- / -	- / -	- / -	160	-	3.20	-	-	3.20	-	-	0.0020	-	-	0.0030	-	0.24	-	276	150	0.7	18	-	19/20	Non-ANSI	-	-
	QNITY	Pyralux AP	x	-	x	k.A.	-	V-0	220*	-	- / -	- / -	- / -	200	-	-	-	-	3.20	-	Low	-	-	-	0.0030	-	-	-	200	-	0.80	-	-	25/25	-	-	-
	QNITY	Pyralux LF	x	-	x	k.A.	-	-	-	-	- / -	- / -	- / -	-	-	-	-	-	3.00	-	-	-	-	-	0.0200	-	-	-	-	-	-	-	-	-	-	-	-
	QNITY	Pyralux LF Coverlay	x	-	x	k.A.	-	-	-	-	- / -	- / -	- / -	-	-	-	-	-	3.10	-	-	-	-	-	0.0150	-	-	-	-	-	-	-	-	-	-	-	-
	QNITY	Pyralux LF Klebesheet	x	-	x	k.A.	-	-	-	-	- / -	- / -	- / -	-	-	-	-	-	2.80	-	-	-	-	-	0.0200	-	-	-	80	-	-	-	-	-	-	-	-
	QNITY	Pyralux FR Klebesheet	-	-	-	k.A.	-	VTM-0	-	-	- / -	- / -	- / -	105	-	-	-	-	2.90	-	-	-	-	-	0.0200	-	-	-	118	-	-	-	-	-	-	-	-
	QNITY	Pyralux HT Bonding Film	-	-	x	k.A.	-	V-0	233	579	- / -	- / -	- / -	200	-	-	-	-	3.20	-	Low	-	-	-	0.0015	-	-	-	161-275	-	0.80	54	-	65/65	-	-	-
	ARLON	35N	-	-	k.A.	-	x	V-1	250*	407	>60 / -	>60 / -	11 / -	-	-	4.00	-	-	-	-	-	-	-	-	-	-	0.20	-	55.9	-	0.26	51	1.2	16/16	GPY	/40 /41	-
	ARLON	85N	-	-	x	-	x	HB	250*	407	>60 / -	>60 / -	>60 / -	-	-	4.00	-	-	-	-	-	-	-	-	-	-	0.20	>40	57.1	-	0.27	55	1.2	16/16	-	/40 /41 /42	-
	COVESTRO	Platilon U (4201 AU)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ISOLA	P96/P26	-	-	-	-	x	V-0	260	396	- / 60	- / 60	- / -	-	170	3.78	3.76	3.73	3.73	-	-	0.0172	0.0179	0.0188	0.0210	-	0.40	>55	44	100-174	0.50	55	1.5	13/14	GPY	/40 /41	-
Thermal Cond.	**TCLAD**	HPL-03015	x	-	k.A.	k.A.	k.A.	V-0	185	-	- / -	- / -	- / -	140	-	-	-	-	-	-	-	-	-	-	-	-	3.00	5	-	600	0.11	-	-	-	-	-	-
	MSC POLYMER	Polytherm TC-Lam 1.3 bis 5.0	x	-	k.A.	k.A.	k.A.	V-0	100	-	- / -	- / -	- / -	130	-	-	-	-	-	-	-	-	-	-	-	-	1.3-5.0	5	-	600	0.1	-	-	-	-	-	-
	VENTEC	VT-5A2 (tec thermal 5)	-	-	-	-	x	V-0	190	375	>60 / -	>30 / -	>15 / -	150	-	4.30	-	-	-	-	Low	0.0080	-	-	-	-	2.2	60	40	600	0.12	29	2.1	11/13	-	-	-