

IPC Spezifikationsblatt IPC Specification Sheet	21 ^{*)}	97 ^{*)}	98 ^{*)}	99	101	121	126	127	128	130	CTI
Tg [°C]	≥ 110	≥ 110	≥ 150	≥ 150	≥ 110	≥ 110	≥ 170	≥ 110	≥ 150	≥ 170	Kriechstrom- festigkeit Comparative Tracking Index [PLC / V] UL
Td 5% [°C] min.	---	---	---	325	310	310	340	310	325	340	
Füllstoffe/Fillers ≥ 5 Gew. %	nein / no	ja / yes	ja / yes	ja / yes	ja / yes	nein / no	ja / yes	ja / yes	ja / yes	ja / yes	
UL/ANSI	FR-4.0	FR-4.0	FR-4.0	FR-4.0	FR-4.0	FR-4.0	FR-4.0	FR-4.1	FR-4.1	FR-4.1	
CTE z α ₁ [ppm/K] max.	---	---	---	60	60	60	60	60	60	60	
CTE z α ₂ [ppm/K] max.	---	---	---	300	300	300	300	300	300	300	
TE 50 - 260 °C [%] max.	---	---	---	3,5	4,0	4,0	3,0	4,0	3,5	3,0	
T260 [min] min.	---	---	---	30	30	30	30	30	30	30	
T288 [min] min.	---	---	---	5	5	5	15	5	5	15	
T300 [min] min.	---	---	---	---	---	---	2	---	---	2	
UV Block FR-4-86	X										3 / 175 - 249
NP-140TL	X					X *)					3 / 175 - 249
FR-4-11PY		X									0 / ≥ 600
NP-155F		X	X	X	X						3 / 175 - 249
NP-175F		X	X	X	X		X				3 / 175 - 249
NP-175FBH		X	X	X	X		X				3 / 175 - 249
NPG-150N								X	X		2 / 250 - 399
NPG-151								X	X		2 / 250 - 399
NPGN-150PY								X	X		0 / ≥ 600
NPG-170								X	X	X	2 / 250 - 399
NPG-170D								X	X	X	2 / 250 - 399
NPG-180BH								X	X	X	2 / 250 - 399

Vorgaben der IPC-4101 / Requirements of IPC-4101

*) technische Abklärung erforderlich / *) technical clarification required