

NF-30-A Typical Values					
Property	Test Method	Unit	Value	Unit	Value
Dk @ 10 GHz	IPC-650 2.5.5.5.1 (Mod.)		3.00 ± .04		3.00 ± 0.04
Df @ 10 GHz	IPC-650 2.5.5.5.1 (Mod.)		0.0013		0.0013
Moisture Absorption	IPC-650 2.6.2.1	%	0.1	%	0.1
Peel Strength (½ oz. ULP Cu)	IPC-650 2.4.8 (Solder)	lbs/in	6	N/mm	1.1
Volume Resistivity	IPC-650 2.5.17.1	Mohms/cm	1.0 x 10 ⁷	Mohms/cm	1.0 x 10 ⁷
Surface Resistivity	IPC-650 2.5.17.1	Mohm	2.0 x 10 ⁷	Mohm	2.0 x 10 ⁷
Dimensional Stability	IPC-650 2.4.39 (Etch)	% (10 mil-MD)	0.027	% (10 mil-CD)	0.021
Dimensional Stability	IPC-650 2.4.39 (Bake)	% (10 mil-MD)	-0.006	% (10 mil-CD)	-0.023
Dimensional Stability	IPC-650 2.4.39 (Stress)	% (10 mil-MD)	-0.030	% (10 mil-CD)	-0.060
Flexural Strength (MD)	IPC-650 2.4.4	psi	2670	N/mm ²	18
Flexural Strength (CD)	IPC-650 2.4.4	psi	2380	N/mm ²	16
Tensile Strength (MD)	IPC-650 2.4.18.3	psi	940	N/mm ²	6.5
Tensile Strength (CD)	IPC-650 2.4.18.3	psi	890	N/mm ²	6.1
Elongation at Break (MD)	IPC-650 2.4.18.3	%	123	%	123
Elongation at Break (CD)	IPC-650 2.4.18.3	%	125	%	125
Density	IPC-650 2.3.5	g/cm ³	2.1	g/cm ³	2.1
Specific Heat	IPC-650 2.4.50	J/g °C	0.94	J/g °C	0.94
Thermal Conductivity (Unclad)	IPC-650 2.4.50	W/M*K	0.50	W/M*K	0.50
T _d (2% wt. loss)	IPC-650 2.4.24.6/TGA	°F	937	°C	503
T _d (5% wt. loss)	IPC-650 2.4.24.6/TGA	°F	960	°C	516
CTE (X-Y axis) (50-150 °C)	IPC-650 2.4.41	ppm/°C	9 - 13	ppm/°C	9 - 13
CTE (Z axis) (50-150 °C)	IPC-650 2.4.41	ppm/°C	35	ppm/°C	35
Flammability	Internal		V-0		V-0
Lead Free Process Compatible	Internal		Yes		Yes

All reported values are typical and should not be used for specification purposes. In all instances, the user shall determine suitability in any given application.



Standard cladding of NF-30-A is ULP copper for best results at high frequency. An example of 10 mil material with ½ oz. ULP Copper on both sides is part #: **NF-30-0100-A-ULPH/ULPH - 18" x 24" (457 mm x 610 mm)**

Standard sheet size is 18" x 24" (457 mm x 610 mm). Please contact AGC for availability of additional thicknesses of other types of cladding.

