

Item	Test method (IPC TM-650)	Condition	Unit	DSFLEX-600 D P	DSFLEX-600 D Y	DSFLEX-600 D U
Thermal properties						
Tg (DMA)	2.4.24.2		°C	350	350	330
Td	2.4.24.6	TGA 5% Loss	°C	>500	>500	>500
CTE X, Y (a1 / a2)	2.4.24.5	TMA	ppm/ °C	19	19	19
Thermal conductivity	2.4.50	Laser Flash	W/ m·k	0.2	0.2	0.2
Max. operating temperature	UL 796		°C	130	130	200

Mechanical properties

Young's modulus	2.4.18.3	As Received	GPa	5.0	5.0	5.5
Tensile strength	2.4.19C		MPa	180	180	380
Elongation	2.4.19C	As Received	%	80	80	70
Dimensional stability (After Etching)	2.2.4C	After Etching (B-A)	%	<±1.0	<±1.0	<±1.0
Dimensional stability (After Heating)	2.2.4C	After Heating (C-A)	%	<±1.0	<±1.0	<±1.0

Density	-		g/cm ³	1.42	1.42	1.42
Poisson ratio	-			0.34	0.34	0.34
Electrical properites						
Dielectric constant(Dk)	2.5.5.13	1GHz		3.2	3.2	3.2
Dissipation factor(Df)	2.5.5.13	1GHz		0.005	0.005	0.005
Surface resistance	2.5.17.1 A	As Recei ved	°C	10 ⁷	10 ⁷	10 ⁷
Volume resistance	2.5.17.1 A	As Recei ved	°C	10 ⁸	10 ⁸	10 ⁸

Dielectric breakdown	2.5.6.2A	AC	kV/mil	5	5	5
Others						
Water Absorption (D-24/23)	2.6.2.1A	D-24/23	%	1.1	1.1	1.1
Flammability	UL-94			VTM-0	VTM-0	VTM-0

*Dk, Df based on R/C 70%