



# ZYST Material DATA SHEET

Changzhou Zhongying Science&Technology CO.,Ltd.

产品 Product	产品结构 Product Structure	介电常数 DK Permittivity DK @ 10 GHz	介质损耗 Df Loss Tangent Df @ 10 GHz	DK 热变化率 Tc DK ppm/°C	导热系数 Thermal Conductivity W/(m.K)	体积电阻率 Volume Resistance MΩ.cm	表面电阻率 Surface Resistance MΩ.cm	吸水率 Water Absorption(%)	热膨胀系数 CTE(0-100°C) (ppm/°C)			剥离强度 Peel Strength (N/mm)	密度 Density g/cm³	阻燃等级 Flammability UL 94	PIM dBc
									X	Y	Z				
<b>PTFE Type Materail : Ultra DK ZYF-D Product</b>															
ZYF220DB	PTFE resin, Woven glass	2.14±0.02	0.0007	-160	0.26	1.2 x 10 <sup>9</sup>	2.9x 10 <sup>8</sup>	0.02	22	33	255	2.45	2.23	UL94-V0	-162
ZYF220D	PTFE resin, Woven glass	2.20±0.02	0.0009	-160	0.26	1.2 x 10 <sup>9</sup>	2.9x 10 <sup>8</sup>	0.02	22	23	233	2.45	2.23	UL94-V0	-162
ZYF250D	PTFE resin, Woven glass	2.50±0.04	0.0017	-115	0.25	1.3x 10 <sup>9</sup>	4.5x 10 <sup>8</sup>	0.03	13	18	125	2.45	2.41	UL94-V0	-163
ZYF255DA	PTFE resin, Woven glass	2.55±0.04	0.0018	-115	0.25	1.3x 10 <sup>9</sup>	4.5x 10 <sup>8</sup>	0.03	13	18	125	2.45	2.41	UL94-V0	-163
ZYF260D	PTFE resin, Woven glass	2.60±0.04	0.0018	-110	0.25	1.3x 10 <sup>9</sup>	4.5x 10 <sup>8</sup>	0.05	12	14	80	2.45	2.41	UL94-V0	-163
ZYF265D	PTFE resin, Woven glass	2.65±0.04	0.0019	-110	0.25	1.3x 10 <sup>9</sup>	4.5x 10 <sup>8</sup>	0.05	12	14	80	2.45	2.41	UL94-V0	-163
<b>PTFE Type Materail : Low DK ZYF-CA Product</b>															
ZYF300CA-C	PTFE resin, Woven glass, Ceramic filler	2.94±0.05	0.0016	-110	0.40	8.9x 10 <sup>8</sup>	4.8x 10 <sup>8</sup>	0.05	12	13	120	2.45	2.27	UL94-V0	-162
ZYF300CA-P	PTFE resin, Woven glass, Ceramic filler	3.0±0.05	0.0018	-110	0.40	8.9x 10 <sup>8</sup>	4.8x 10 <sup>8</sup>	0.05	12	13	120	2.45	2.27	UL94-V0	-162
ZYF300CA-L	PTFE resin, Woven glass, Ceramic filler	3.0±0.05	0.0019	-110	0.42	1.2x 10 <sup>8</sup>	4.1x 10 <sup>8</sup>	0.05	15	16	110	2.45	2.27	UL94-V0	-158
ZYF320CA	PTFE resin, Woven glass, Ceramic filler	3.2±0.05	0.0030	-125	0.45	8.2x 10 <sup>7</sup>	4.3x 10 <sup>7</sup>	0.06	14	14	126	2.45	2.30	UL94-V0	-162
ZYF330CA	PTFE resin, Woven glass, Ceramic filler	3.3±0.05	0.0032	-100	0.45	8.0x 10 <sup>7</sup>	4.1x 10 <sup>7</sup>	0.06	13	13	110	2.45	2.30	UL94-V0	-160
ZYF340CA	PTFE resin, Woven glass, Ceramic filler	3.4±0.05	0.0033	-100	0.45	7.8x 10 <sup>7</sup>	3.9x 10 <sup>7</sup>	0.06	13	13	105	2.45	2.31	UL94-V0	-160
ZYF350CA	PTFE resin, Woven glass, Ceramic filler	3.5±0.05	0.0031	-65	0.45	1.2x 10 <sup>9</sup>	4.5x 10 <sup>7</sup>	0.06	20	20	85	2.45	2.35	UL94-V0	-160
ZYF350CA-T	PTFE resin, Woven glass, Ceramic filler	3.5±0.05	0.002	-30	1.0	8.7x 10 <sup>8</sup>	4.6x 10 <sup>7</sup>	0.06	12	13	46	0.8	2.36	UL94-V0	/
ZYF430CA	PTFE resin, Woven glass, Ceramic filler	4.3±0.05	0.0034	-80	0.45	8.2x 10 <sup>8</sup>	3.1x 10 <sup>7</sup>	0.06	9	9	39	1.35	2.40	UL94-V0	-162
<b>Hydrocarbon Type Material : ZYC8000 Product</b>															
ZYC8255	Hydrocarbon resin, Woven glass, Ceramic filler	2.55±0.05	0.0024	35	0.39	1.2x 10 <sup>8</sup>	5.0x 10 <sup>8</sup>	0.08	13	18	35	0.87	1.30	UL94-V0	-160
ZYC8300	Hydrocarbon resin, Woven glass, Ceramic filler	3.0±0.05	0.0026	30	0.45	1.9x 10 <sup>9</sup>	5.1x 10 <sup>8</sup>	0.08	12	14	47	0.87	1.82	UL94-V0	-160
ZYC8320	Hydrocarbon resin, Woven glass, Ceramic filler	3.2±0.05	0.0027	40	0.48	1.7x 10 <sup>9</sup>	4.5x 10 <sup>8</sup>	0.08	13	14	45	0.87	1.83	UL94-V0	-158
ZYC8330	Hydrocarbon resin, Woven glass, Ceramic filler	3.3±0.05	0.0028	40	0.5	1.6x 10 <sup>9</sup>	4.7x 10 <sup>8</sup>	0.08	12	14	46	0.87	1.84	UL94-V0	-158
ZYC8340	Hydrocarbon resin, Woven glass, Ceramic filler	3.4±0.05	0.0030	50	0.51	1.6x 10 <sup>9</sup>	4.7x 10 <sup>8</sup>	0.08	12	15	45	0.87	1.86	UL94-V0	-162
ZYC8350	Hydrocarbon resin, Woven glass, Ceramic filler	3.5±0.05	0.0032	50	0.51	1.6x 10 <sup>9</sup>	4.2x 10 <sup>8</sup>	0.08	16	17	50	0.87	1.88	UL94-V0	-157
ZYC8350-TL	Hydrocarbon resin, Woven glass, Ceramic filler	3.5±0.05	0.0031	50	0.69	1.8x 10 <sup>9</sup>	5.7x 10 <sup>8</sup>	0.10	10	12	45	0.87	1.85	UL94-V0	/
ZYC8350-T	Hydrocarbon resin, Woven glass, Ceramic filler	3.5±0.05	0.0022	50	0.8	1.6x 10 <sup>9</sup>	4.2x 10 <sup>8</sup>	0.10	10	12	50	0.87	1.85	UL94-V0	/
ZYC8350-TH	Hydrocarbon resin, Woven glass, Ceramic filler	3.5±0.05	0.0028	50	0.85	1.6x 10 <sup>9</sup>	4.2x 10 <sup>8</sup>	0.10	10	12	48	0.87	1.85	UL94-V0	/
<b>Hydrocarbon Type Prepreg</b>															
ZYC8300P	Hydrocarbon resin, Woven glass, Ceramic filler	3.0±0.05	0.0026	50	0.45	8.4x 10 <sup>9</sup>	1.3x 10 <sup>8</sup>	0.10	12	14	47	0.87	1.82	UL94-V0	/
ZYC8350P	Hydrocarbon resin, Woven glass, Ceramic filler	3.5±0.05	0.0032	50	0.51	1.6x 10 <sup>9</sup>	4.2x 10 <sup>8</sup>	0.10	15	16	50	0.87	1.88	UL94-V0	/



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# ZYST Material Specification Table

Changzhou Zhongying Science & Technology CO., Ltd.

标准厚度 Standard Thickness		标准尺寸 Standard Sheet Size		标准铜箔 Standard Copper Foil	
mm	Inch	mm	Inch	Thickness (oz)	Type
<b>PTFE Type Material : Ultra DK ZYF-D Product</b>					
0.130	0.005				
0.254	0.010				
0.381	0.015	927X1232	36.5"X48.5"		
0.508	0.020	1029X1232	40.5"X48.5"	H/H	RTF
0.762	0.030	1080X1232	42.5"X48.5"	1/1	VLP
0.940	0.037	1854X1232	73"X48.5"	2/2	
1.016	0.400	2057X1232	81"X48.5"		
1.524	0.600	2159X1232	85"X48.5"		
3.170	0.125				
<b>PTFE Type Material : Low DK ZYF-CA Product</b>					
0.381	0.015	927X1232	36.5X48.5		
0.508	0.020	940X1232	37X48.5		
0.762	0.030	953X1232	37.5X48.5		
1.016	0.400	1029X1232	40.5X48.5	H/H	RTF
1.524	0.600	1080X1232	42.5X48.5	1/1	VLP
3.170	0.125	1854X1232	73X48.5	2/2	
		1880X1232	74X48.5		
		1905X1232	75X48.5		
		2057X1232	81X48.5		
		2159X1232	85X48.5		
<b>Hydrocarbon Type Material : ZYC8000 Product</b>					
0.254	0.010	940X1244	37X49		
0.508	0.020	1041X1244	41X49	H/H	RTF
0.762	0.030	1092X1244	43X49	1/1	VLP
1.016	0.400	1880X1244	74X49	2/2	HVLP
1.524	0.600	2083X1244	82X49		
		2184X1244	86X49		
<b>Hydrocarbon Type Prepreg</b>					
	4mil [0.102mm]	12"X18"[305mm X 457mm] 24"X18"[610mm X 457mm] 可根据需求提供卷装产品 Rolls can be supplied according to requirement.		/	/

备注: 其他型号, 请联系中英科技。 Remark: Other type is available upon request.