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Report No. E10-EV1

1. Typical Properties of ZEONEX RS420

Properties	Unit	Test method	Remarks	ZEONEX RS420
Specific gravity	-	ASTM D792		1.01
Water absorption	%	ASTM D570		< 0.01
Glass transition temp.	°C	DSC		136
Heat distortion temp.	°C	ISO75	1.8MPa w/o anneal Flat wise method	110
	°C	ISO75	1.8MPa annealed Flat wise method	134
Linear expansion coefficient	cm/cm°C	ASTM D696		7×10^{-5}
Melt flow rate	g/10min	JIS K6719	280°C 2.16 kg	7
Flexural modulus	Mpa	ISO178		1600
Flexural strength	Mpa	ISO178		64
Tensile modulus	Mpa	ISO527		1700
Tensile strength	Mpa	ISO527		45
Tensile elongation	%	ISO527		135
Izod impact	J/m	ASTM D256	3.2 mm with notch	510
Pencil hardness		JIS K5401		B
Volume resistivity	Ω cm	ASTM D257		$> 10^{16}$
Dielectric breakdown strength	kV/mm	ASTM D149	Short cycle 1mm	40
Dielectric constant	-	ASTM D150	1 MHz	2.3
Dielectric loss tangent	-	ASTM D150	1 MHz	0.0002
Material color	-	-	-	White Opaque

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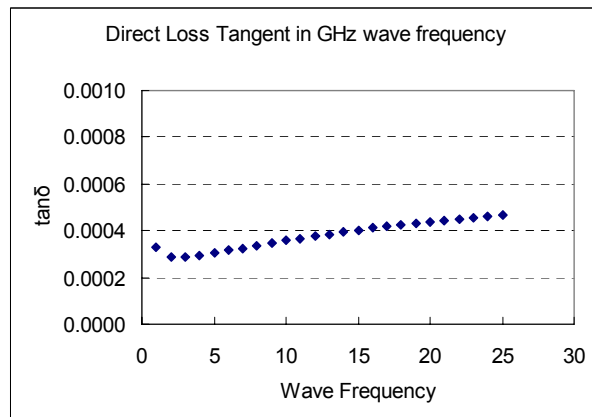
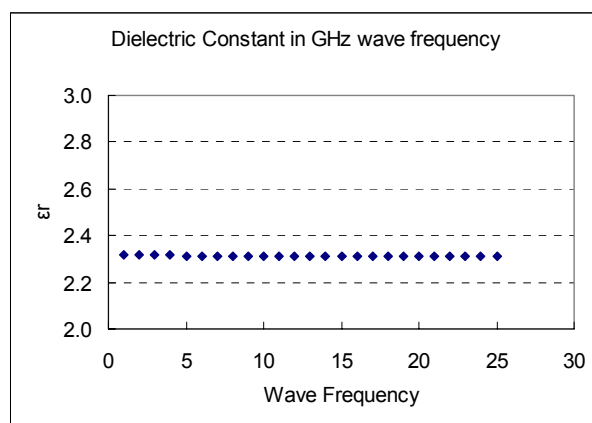
2. Dielectric Properties of ZEONEX RS420

ASTM-D150 (LCR meter)

Wave Frequency /MHz	ϵ_r	$\tan\delta$
1	2.34	0.0002

Triplate line resonator method

Wave Frequency /GHz	ϵ_r	$\tan\delta$
1	2.32	0.00033
2	2.32	0.00029
3	2.32	0.00028
4	2.32	0.00029
5	2.31	0.00030
6	2.31	0.00031
7	2.31	0.00033
8	2.31	0.00034
9	2.31	0.00035
10	2.31	0.00036
11	2.31	0.00037
12	2.31	0.00038
13	2.31	0.00039
14	2.31	0.00039
15	2.31	0.00040
16	2.31	0.00041
17	2.31	0.00042
18	2.31	0.00043
19	2.31	0.00043
20	2.31	0.00044
21	2.31	0.00044
22	2.31	0.00045
23	2.31	0.00046
24	2.31	0.00046
25	2.31	0.00047



Fabry-Perot resonator method

Wave Frequency /GHz	ϵ_r	$\tan\delta$
77	2.27	0.00050

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