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Specialty Plastics Product Information

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ZEONEX®

(2) Basic Properties (dielectric)

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Property	Unit	Measurement method	Conditions	RS420
Specific gravity	–	ASTM D792	–	1.01
Water absorption	%	ASTM D570	–	<0.01
Light transmittance	%	ASTM D1003	Thickness: 3 mm	White opaque
Refractive index	–	ASTM D542	–	–
Glass transition temperature	°C	DSC	–	136
Heat distortion temperature	°C	ISO75	1.80MPa No anneal	110
Linear expansion coefficient	cm/cm°C	ASTM D696	–	7×10 ⁻⁵
MFR	g/10min	JIS K6719	280°C 21.18N	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 strength	J/m	ASTM D256	3.2mm with notch	510
Pencil hardness	–	JIS K5401	–	B
Volume resistivity	Ωcm	ASTM D257	–	>10 ¹⁶
Dielectric breakdown strength	kV/mm	ASTM D149	Short-time method, 1mm	40
Dielectric constant	–	ASTM D150	1MHz	2.3
Dielectric loss tangent	–	ASTM D150	1MHz	0.0002
Flammability	–	UL standards	–	94HB
Major applications	–	–	–	Connector and antenna components

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Data represents experimental results and does not guarantee specific performance levels under actual usage.

[Inquiries for Product Sales](#)

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