

Typical Properties of ZEONEX 790R Medical Grade

Properties	Measurement methods	Unit	ZEONEX 790R
Specific gravity	ASTM D792	-	1.01
Water absorption	ASTM D570	%	<0.01
Moisture permeability	JIS Z 0280 (300μm)	g/m ² .24hr	0.26
Light transmittance	ASTM D1003 (3mm)	%	92
Refractive index	ASTM D542		1.53
Glass transition temperature	DSC	°C	163
Heat distortion temperature	ASTM D648 (18.6kgf)	°C	161
Thermal decomposition temp		°C	420
Linear expansion coefficient	ASTM D696	cm/cm°C	6×10 ⁻⁵
Melt flow rate	JIS K6719 (280°C)	g/10min	6
Molding shrinkage	ASTM D955	%	0.3-0.6
Flexural modulus	ASTM D790	MPa	2600
Flexural strength	ASTM D790	MPa	119
Tensile strength	ASTM D638	MPa	73
Tensile modulus	ASTM D638	MPa	2700
Tensile elongation	ASTM D638	%	10
Izod impact strength	ASTM D256	KJ/m ²	3
Dupont impact strength	ASTM D256	J	1
Rockwell hardness	ASTM D785		75
Volume resistivity	ASTM D257	Ωm	>10 ¹⁶
Dielectric breakdown strength	ASTM D149	KV/mm	>70
Dielectric constant	ASTM D150 (1MHz)		2.3
Dielectric loss tangent	ASTM D150 (1MHz)		0.0002
UL flammability rating	UL-94	Class	94HB
Processability			Injection-molding; Injection-blow molding Extrusion

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