

SCHOTT® DentalGlass | Inert

Materials Data



Properties

Glass	Refractive index n_d										RO (digital method)					Expansion coefficient (-30+70°C) 10-6/K	Density g/cm ³	Young's Modulus GPa							
	value	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60				1.63	value	0	400	800	1200	1600
G018-307	1.50			●													340	Zr-containing					4	2.5	-
G018-163	1.50			●													260	Sr + F					3	2.5	-
G018-093	1.51			●													330	Sr + F					5	2.6	-
GM39923	1.52			●													560	Ba + F					5	2.8	-
GM32087	1.52			●													370	Sr					4	2.6	72
G018-308	1.53			●													560	Zr-containing					7	2.7	-
GM27884	1.53			●													560	Ba					4	2.8	71
G018-053	1.53			●													700	Ba + F					5	2.9	72
G018-309	1.55				●												700	Zr-containing					6	2.9	77
8235	1.55				●												760	Ba					5	3.0	73
G018-186	1.55				●												800	Ba + F					5	3.0	77
G018-310	1.60												●				780	Zr-containing					5	3.1	92
G018-159	1.61													●			840	Sr + F					8	3.4	-
GM31685	1.53																170	Glass ceramic					Approx. 1	2.6	-
GM31684	1.58																410	Glass ceramic					Approx. 1	2.9	-
G018-161	1.83																2150	High Radiopaque					6	4.6	111

Composition in wt%

Glass	Al ₂ O ₃	B ₂ O ₃	BaO	CaO	CaF ₂	Fluoride	K ₂ O	La ₂ O ₃	Li ₂ O	MgO	Na ₂ O	Nb ₂ O ₅	P ₂ O ₅	SiO ₂	SrO	SrO ₂	Ta ₂ O ₅	TiO ₂	WO ₃	ZnO	ZrO ₂	
G018-307	< 5	15	-	-	10	-	5	5	-	-	-	-	-	65	-	-	-	-	-	-	-	< 5
G018-163	15	15	-	-	< 2	-	-	-	-	-	-	-	-	60	-	15	-	-	-	-	-	-
G018-093	15	15	1	-	< 2	-	-	-	-	-	-	-	-	50	-	20	-	-	-	-	-	-
GM39923	10	10	35	-	< 2	-	-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-
GM32087	15	15	1	-	-	-	-	-	-	-	-	-	-	50	-	20	-	-	-	-	-	-
G018-308	< 10	10	-	-	10	-	15	10	-	-	-	-	-	55	< 5	-	-	-	-	-	-	< 5
GM27884	10	10	25	-	-	-	-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-
G018-053	10	10	10	-	< 2	-	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-
G018-309	< 5	< 10	-	< 10	15	-	< 5	< 10	-	-	< 5	-	-	55	< 5	-	-	-	-	-	-	< 5
8235	10	10	30	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-
G018-186	10	10	30	-	< 2	-	-	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-
G018-310	20	-	-	-	< 5	-	-	20	< 5	-	-	-	-	45	-	-	< 5	-	-	-	< 5	5
G018-159	5	5	-	5	2	-	5	-	-	5	-	-	-	30	-	25	-	-	-	-	10	10
GM31685	20	-	-	-	-	-	1	-	5	5	-	-	-	60	-	-	1	-	-	-	1	5
GM31684	20	-	-	-	-	-	1	10	5	-	-	-	5	50	-	-	1	-	-	-	1	5
G018-161	-	20	-	-	-	-	-	35	-	-	-	10	-	5	-	-	-	< 5	5	20	< 5	-

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