


# NANOCERAM™

※・・・Chemical strengthened and measured by OHARA INC.

	 NANOCERAM™	Aluminosilicate Chemical strengthened glass
Specific Gravity 比重	2.54	2.43
Young's Modulus (10 <sup>8</sup> N/m <sup>2</sup> ) ヤング率	800	-
Poisson ratio ポアソン比	0.226	0.21
Thermal Conductivity (W/m・K) 熱伝導率	1.179	-
Refractive Index (nd) 屈折率(nd)	1.539	1.50
Refractive Index (ne) 屈折率(ne)	1.542	-
Abbe Number (vd) 分散(vd)	51.7	-
Abbe Number (ve) 分散(ve)	51.6	-
Transmittance(1mm) 80% 透過率 (nm)	360	340
Transmittance (0.6mm) at 550nm 透過率	90.2	91.0
Transformation Temp Tg (°C) 転移点	653	-
Yield Point At (°C) 屈伏点	759	-
Photo elastic Constant (β) (nm/(cm・10 <sup>5</sup> Pa)) 光弾性定数	2.86	-
Expansion Coefficients $\alpha \times 10^{-7} / ^\circ\text{C}$ (-30~70°C) 線膨張係数	79	-
Expansion Coefficients $\alpha \times 10^{-7} / ^\circ\text{C}$ (100~300°C) 線膨張係数	91	78
Volume Resistivity (Ω・cm) 体積抵抗率	5.9×10 <sup>13</sup>	-
Dielectric Constant at 54MHz	8.2	7.1
Dielectric Constant at 272MHz	8.1	7.0
Dielectric Constant at 490MHz	8.1	7.0
Dielectric Constant at 912MHz	8.1	7.0
Water Resistance RW(p) (Powder Method)耐水性(粉末法)	1	-
Acid Resistance RA(p) (Powder Method)耐酸性(粉末法)	1	-
Weathering Resistance W(s) (Surface Method) 耐候性 (表面法)	1	-
Acid Resistace SR (Surface Method) 耐酸性 SR (表面法)	1.0	-
Phosphate PR (Surface Method) 耐洗剤 PR (表面法)	1.0	-
Vickers Hardness Hv (200gf)※ ビッカース硬度	710	580
RonR (MPa) 5.5"0.55t※ リンクオリング強度	1060	490
Breaking Stress 4P (MPa)Ave 5.5"0.55t※ 曲げ強度	1180	640
Ball Drop(132g) 150x70x0.6mmt (cm)※ 鋼球落下強度	120	35
Depth of Compression layer Capability (μm) ※ 化学強化層	≥90	≥160
Compressive Stress Capability (MPa)※ 圧縮応力	≥950	≥710

※Disclose the recommended Chemical strengthening conditions to customers.

※ NANOCERAM™ is a trademark of OHARA INC.