

Corning Gorilla® Glass 4 Touch Screen Glass

Category : Ceramic , Glass , Optical

Material Notes:

Gorilla® Glass 4 is just as thin and light as previous versions of Gorilla® Glass, but has been formulated to deliver dramatically improved damage resistance allowing improved in-field performance. Corning® Gorilla® Glass 4 has been tested for performance when subjected to sharp contact damage, such as asphalt and other real-world surfaces. This glass is widely used in smart phone, tablet, and laptop displays, other touchscreens, optical components, and other high strength glass applications. Information provided by Corning Incorporated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Corning-Gorilla-Glass-4-Touch-Screen-Glass.php

Physical Properties	Metric	English	Comments
Density	2.42 g/cc	0.0874 lb/in ³	
Thickness	400 - 1000 microns	15.7 - 39.4 mil	Standard; others available upon request

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	489	489	kgf/mm ² ; unstrengthened (200 g load)
	596	596	kgf/mm ² ; strengthened (200 g load)
Modulus of Elasticity	65.8 GPa	9540 ksi	
Compressive Strength	>= 850 MPa	>= 123000 psi	Chemically Strengthened to >50 μm Depth
Poissons Ratio	0.22	0.22	
Fracture Toughness	0.670 MPa-m ^{1/2}	0.610 ksi-in ^{1/2}	
Shear Modulus	26.0 GPa	3770 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.69 μm/m-°C	4.83 μin/in-°F	
	@Temperature 0.000 - 300 °C	@Temperature 32.0 - 572 °F	
Softening Point	912 °C	1670 °F	10 ^{>7.6</sup> Poise}
Annealing Point	646 °C	1190 °F	10 ^{>13.2</sup> Poise}
Strain Point	596 °C	1100 °F	10 ^{>14.7</sup> Poise}

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
	@Wavelength 590 nm	@Wavelength 590 nm	
	1.51	1.51	compression layer
	@Wavelength 590 nm	@Wavelength 590 nm	
Transmission, Visible	>= 91.5 %	>= 91.5 %	
	@Wavelength 450 - 2100 nm	@Wavelength 450 - 2100 nm	
IR Transmittance	>= 90.0 %	>= 90.0 %	
	@Wavelength 2100 - 2500 nm	@Wavelength 2100 - 2500 nm	
	>= 91.5 %	>= 91.5 %	
	@Wavelength 700 - 2100 nm	@Wavelength 700 - 2100 nm	
UV Transmittance	0.0 %	0.0 %	
	@Wavelength <=250 nm	@Wavelength <=250 nm	
	>= 91.5 %	>= 91.5 %	
	@Wavelength 380 nm	@Wavelength 380 nm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.33	7.33	
	@Frequency 2.986e+9 Hz	@Frequency 2.986e+9 Hz	
	7.34	7.34	
	@Frequency 2.466e+9 Hz	@Frequency 2.466e+9 Hz	
	7.37	7.37	
	@Frequency 1.977e+9 Hz	@Frequency 1.977e+9 Hz	
	7.39	7.39	
	@Frequency 1.50e+9 Hz	@Frequency 1.50e+9 Hz	
	7.43	7.43	
	@Frequency 9.1e+8 Hz	@Frequency 9.1e+8 Hz	
	7.60	7.60	
	@Frequency 5.990e+8	@Frequency 5.990e+8	

Electrical Properties	Hz Metric	Hz English	Comments
	7.63	7.63	
	@Frequency 4.90e+8 Hz	@Frequency 4.90e+8 Hz	
	7.66	7.66	
	@Frequency 3.81e+8 Hz	@Frequency 3.81e+8 Hz	
	7.70	7.70	
	@Frequency 2.72e+8 Hz	@Frequency 2.72e+8 Hz	
	7.77	7.77	
	@Frequency 1.63e+8 Hz	@Frequency 1.63e+8 Hz	
	7.89	7.89	
	@Frequency 5.40e+7 Hz	@Frequency 5.40e+7 Hz	
Dissipation Factor	0.0230	0.0230	
	@Frequency 4.90e+8 Hz	@Frequency 4.90e+8 Hz	
	0.0240	0.0240	
	@Frequency 5.99e+8 Hz	@Frequency 5.99e+8 Hz	
	0.0240	0.0240	
	@Frequency 9.12e+8 Hz	@Frequency 9.12e+8 Hz	
	0.0240	0.0240	
	@Frequency 1.63e+8 Hz	@Frequency 1.63e+8 Hz	
	0.0240	0.0240	
	@Frequency 2.72e+8 Hz	@Frequency 2.72e+8 Hz	
	0.0240	0.0240	
	@Frequency 3.81e+8 Hz	@Frequency 3.81e+8 Hz	
	0.0250	0.0250	
	@Frequency 1.499e+9 Hz	@Frequency 1.499e+9 Hz	
	0.0250	0.0250	

Electrical Properties	Metric	English	Comments
	@Frequency 1.977e+9 Hz	@Frequency 1.977e+9 Hz	
	0.0260	0.0260	
	@Frequency 2.466e+9 Hz	@Frequency 2.466e+9 Hz	
	0.0260	0.0260	
	@Frequency 5.4e+7 Hz	@Frequency 5.4e+7 Hz	
	0.0270	0.0270	
	@Frequency 2.986e+9 Hz	@Frequency 2.986e+9 Hz	

Descriptive Properties	Value	Comments
Photo-elastic Constant	30.3 nm/cm/MPa	

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