Corning Antimicrobial Gorilla® Glass Touch Screen Glass

Category : Ceramic , Glass , Optical

Material Notes:

Antimicrobial Corning® Gorilla® Glass is an antimicrobial cover glass with EPA registration as a treated article. It combines the benefits of Corning® Gorilla® Glass technology, including durability, scratch resistance and toughness. Antimicrobial Corning® Gorilla® Glass is an alkali-aluminosilicate thin sheet glass formulated with an antibacterial agent to help keep the glass surface clean of stain and odor-causing bacteria. Antimicrobial Corning® Gorilla® Glass is produced by incorporating silver ions (Ag+) as the antimicrobial agent into Corning® Gorilla® Glass 3. Trace amounts of silver ions leach to the glass surface to eliminate the surface bacteria in multiple modes. Antimicrobial Corning® Gorilla® Glass has proven to show a consistent [3 log (>99.9%)] microbial reduction rate against a broad range of bacteria under the JIS Z 2801 test protocolThis glass is widely used in smart phones, tablets, and laptops, medical displays, point-of-sale kiosks, other touchscreens, health care surfaces, furniture surfaces, and other settings in which antimicrobial properties are preferred.Information provided by Corning Incorporated.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Corning-Antimicrobial-Gorilla-Glass-Touch-Screen-Glass.php

Physical Properties	Metric	English	Comments
Density	2.39 g/cc	0.0863 lb/in³	
Thickness	400 - 2000 microns	15.7 - 78.7 mil	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	534	534	kgf/mm²; unstrengthened (200 g load)
	649	649	kgf/mm²; strengthened (200 g load)
Modulus of Elasticity	69.3 GPa	10100 ksi	
Compressive Strength	>= 750 MPa	>= 109000 psi	Chemically Strengthened to 35 µm Depth
Poissons Ratio	0.22	0.22	
Fracture Toughness	0.660 MPa-m½	0.601 ksi-in½	
Shear Modulus	28.5 GPa	4130 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.58 µm/m-°C @Temperature 0.000 - 300 °C	4.21 µin/in-°F @Temperature 32.0 - 572 °F	
Softening Point	900 °C	1650 °F	10^{7.6} Poise
Annealing Point			10^{13.2} Poise

Thermal Properties	Metric	English	Comments
	628 °C	1160 °F	
Strain Point	574 °C	1070 °F	10^{14.7} Poise

Optical Properties	Metric	English	Comments
Refractive Index	1.50 @Wavelength 590 nm	1.50 @Wavelength 590 nm	core glass
	1.52 @Wavelength 590 nm	1.52 @Wavelength 590 nm	compression layer
Transmission, Visible	>= 91.4 % @Wavelength 400 - 550 nm	>= 91.4 % @Wavelength 400 - 550 nm	
	>= 91.5 % @Wavelength 390 nm	>= 91.5 % @Wavelength 390 nm	
	92 % @Wavelength 550 - 750 nm	92 % @Wavelength 550 - 750 nm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.02 @Frequency 4.90e+8 Hz	7.02 @Frequency 4.90e+8 Hz	
	7.02 @Frequency 5.99e+8 Hz	7.02 @Frequency 5.99e+8 Hz	
	7.02 @Frequency 9.7e+9 Hz	7.02 @Frequency 9.7e+9 Hz	
	7.03 @Frequency 3.81e+8 Hz	7.03 @Frequency 3.81e+8 Hz	
	7.03 @Frequency 8.17e+8 Hz	7.03 @Frequency 8.17e+8 Hz	
	7.05 @Frequency 9.26e+8 Hz	7.05 @Frequency 9.26e+8 Hz	
	7.06	7.06	

Electrical Properties	Metric	English	Comments
	@Frequency 2.72e+8 Hz	@Frequency 2.72e+8 Hz	
	7.10 @Frequency 1.63e+8 Hz	7.10 @Frequency 1.63e+8 Hz	
	7.18 @Frequency 5.40e+7 Hz	7.18 @Frequency 5.40e+7 Hz	
Dissipation Factor	0.0163 @Frequency 2.72e+8 Hz	0.0163 @Frequency 2.72e+8 Hz	
	0.0165 @Frequency 3.8e+8 Hz	0.0165 @Frequency 3.8e+8 Hz	
	0.0168 @Frequency 5.99e+8 Hz	0.0168 @Frequency 5.99e+8 Hz	
	0.0173 @Frequency 7.08e+8 Hz	0.0173 @Frequency 7.08e+8 Hz	
	0.0177 @Frequency 8.17e+8 Hz	0.0177 @Frequency 8.17e+8 Hz	
	0.0178 @Frequency 4.90e+8 Hz	0.0178 @Frequency 4.90e+8 Hz	
	0.0180 @Frequency 9.26e+8 Hz	0.0180 @Frequency 9.26e+8 Hz	
	0.0189 @Frequency 1.63e+8 Hz	0.0189 @Frequency 1.63e+8 Hz	
	0.0198 @Frequency 5.40e+7 Hz	0.0198 @Frequency 5.40e+7 Hz	

Descriptive Properties	Value	Comments
Photo-elastic Constant	31.9 nm/cm/MPa	

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