

Corning Gorilla® Glass 3 Touch Screen Glass with NDR

Category : Ceramic , Glass , Optical

Material Notes:

Gorilla® Glass 3 with Native Damage Resistance™ (NDR) is an alkali-aluminosilicate thin sheet glass that is better able to survive the real-world events that most commonly cause glass failure. With its core composition, this glass enables improved damage resistance and toughness by helping to prevent the deep chips and scratches that cause glass to break. 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-3-Touch-Screen-Glass-with-NDR.php

Physical Properties	Metric	English	Comments
Density	2.39 g/cc	0.0863 lb/in ³	
Thickness	400 - 2000 microns	15.7 - 78.7 mil	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	534	534	kgf/mm ² ; unstrengthened (200 g load)
	649	649	kgf/mm ² ; strengthened (200 g load)
Modulus of Elasticity	69.3 GPa	10100 ksi	
Compressive Strength	950 MPa	138000 psi	Chemically Strengthened to 40 μm Depth
Poissons Ratio	0.22	0.22	
Fracture Toughness	0.660 MPa-m ^{1/2}	0.601 ksi-in ^{1/2}	
Shear Modulus	28.5 GPa	4130 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.58 μm/m-°C	4.21 μin/in-°F	
	@Temperature 0.000 - 300 °C	@Temperature 32.0 - 572 °F	
Softening Point	900 °C	1650 °F	10 ^{>7.6</sup> Poise}
Annealing Point	628 °C	1160 °F	10 ^{>13.2</sup> Poise}
Strain Point	574 °C	1070 °F	10 ^{>14.7</sup> Poise}

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Refractive index	@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 390 - 800 nm	@Wavelength 390 - 800 nm	
IR Transmittance	>= 90.0 %	>= 90.0 %	
	@Wavelength 2200 - 2500 nm	@Wavelength 2200 - 2500 nm	
	>= 91.5 %	>= 91.5 %	
	@Wavelength 700 - 2200 nm	@Wavelength 700 - 2200 nm	
UV Transmittance	0.0 %	0.0 %	
	@Wavelength <=250 nm	@Wavelength <=250 nm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.19	7.19	
	@Frequency 2.986e+9 Hz	@Frequency 2.986e+9 Hz	
	7.20	7.20	
	@Frequency 2.466e+9 Hz	@Frequency 2.466e+9 Hz	
	7.23	7.23	
	@Frequency 1.977e+9 Hz	@Frequency 1.977e+9 Hz	
	7.26	7.26	
	@Frequency 1.50e+9 Hz	@Frequency 1.50e+9 Hz	
	7.30	7.30	
	@Frequency 9.1e+8 Hz	@Frequency 9.1e+8 Hz	
	7.37	7.37	
	@Frequency 5.990e+8 Hz	@Frequency 5.990e+8 Hz	
	7.38	7.38	

Electrical Properties	@Frequency 4.90e+8 Metric Hz	@Frequency 4.90e+8 English Hz	Comments
	7.42	7.42	
	@Frequency 3.81e+8 Hz	@Frequency 3.81e+8 Hz	
	7.44	7.44	
	@Frequency 2.72e+8 Hz	@Frequency 2.72e+8 Hz	
	7.48	7.48	
	@Frequency 1.63e+8 Hz	@Frequency 1.63e+8 Hz	
	7.59	7.59	
	@Frequency 5.40e+7 Hz	@Frequency 5.40e+7 Hz	
Dissipation Factor	0.0210	0.0210	
	@Frequency 4.90e+8 Hz	@Frequency 4.90e+8 Hz	
	0.0210	0.0210	
	@Frequency 2.72e+8 Hz	@Frequency 2.72e+8 Hz	
	0.0220	0.0220	
	@Frequency 3.81e+8 Hz	@Frequency 3.81e+8 Hz	
	0.0220	0.0220	
	@Frequency 5.4e+7 Hz	@Frequency 5.4e+7 Hz	
	0.0220	0.0220	
	@Frequency 1.63e+8 Hz	@Frequency 1.63e+8 Hz	
	0.0230	0.0230	
	@Frequency 5.99e+8 Hz	@Frequency 5.99e+8 Hz	
	0.0230	0.0230	
	@Frequency 9.12e+8 Hz	@Frequency 9.12e+8 Hz	
	0.0230	0.0230	
	@Frequency 1.499e+9 Hz	@Frequency 1.499e+9 Hz	
	0.0230	0.0230	

Electrical Properties	Metric	English	Comments
	@Frequency 1.977e+9 Hz	@Frequency 1.977e+9 Hz	
	0.0240	0.0240	
	@Frequency 2.466e+9 Hz	@Frequency 2.466e+9 Hz	
	0.0250	0.0250	
	@Frequency 2.986e+9 Hz	@Frequency 2.986e+9 Hz	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China