



GUJARAT BOROSIL LIMITED

Specifications for Antireflective Coated Textured Tempered Solar Glass

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Sl. No	Characteristic	Specification
1	Description	Antireflective Coated Textured Tempered Solar Glass
2	Process	Single Side Roller Coating
3	Coating Material	Material: Nano SiO ₂ particles solgel form

Glass Properties

4	Glass Quality	Ref – SG/QP/8/02 ANNEX-3	
5	Size & thickness tolerance		
6	Tempered Glass		
7	Light Transmittance T _v % (380-780 nm) Measurement by UV-Vis – Spectrophotometer by acc. ISO 9050:2003	3.2 mm	> 94.0
		4.0 mm	> 93.8

Coating Properties

8	<p>Test Criteria: (EN 572-5:2012) / 5.2.1</p> <p>The glass pane to be examined is illuminated in conditions approximating to diffuse daylight and observed in front of a matt gray screen. Place the pane of Glass to be examined vertically 3 m in front and parallel to a matt grey screen. Arrange the point (Conditions approximating to diffuse day light). Arrange the point of observation 1.5 m from glass, keeping the direction of observation normal to the glass surface</p>	Coating Quality on the edges: The hue at the edge of the glass surface visually looks like color variation at edges	
		Distance from edge ≤ 12mm	Allowed
		Distance from edge > 12mm	Not Allowed
		Minor Aberrations in the Coating	
		Spot Diameter upto 10mm	Allowed
		Spot Diameter > 10mm	Not Allowed
		Stain: caused by the excessive coating liquid along four edges.	
		Distance from edge ≤ 7mm	Allowed
		Distance from edge > 7mm	Not Allowed
		Coating Scratch: caused by transfer of glass during process.	
		W ≤ 0.3mm, L ≤ 60mm	4 nos/sqm, with an interval of not less than 100mm
		W > 0.3mm, L > 60mm	Not Allowed
Visible Inclusion: caused by such coating liquid polluted by foreign substance.			
Diameter ≤ 1.2mm	no cluster (less than 20 within an area of Dia. 100mm)		
Diameter > 1.2mm	Not Allowed		

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