



PROPERTY

REQUIREMENT

1.0 DIMENSION

1.1. Thickness 0.080" -10% / +10%
Other thicknesses available upon request

1.2. Max. width 43.31" 0.0" / 0.2362" *

1.3. Max. length 78.74" 0.0"/0.3150" *

* at the max. dimension size

2.0 APPEARANCE

2.1. Warpage/deflection Length divided by 100

2.2. Squareness -0.500" / +0.500"

2.3. Ripples /distortion Visual inspection performed

2.4. Visual defects Visual inspection performed

A. Black specks, carbon

Defect size	Max. defects per sq. ft.
0.032" – 0.039"	1
0.020" – 0.031"	2
0.010" – 0.019"	10

B. Inclusions, bubbles, sink mark

Defect size	Max. defects per sq. ft.
0.032" – 0.039"	1
0.020" – 0.031"	2
0.010" – 0.019"	10

3.0 MIRROR

3.1. Visual defects Visual inspection performed

A. Aluminum splatter
Defect size 0.065" – 0.500" Max. defects per sheet
1

B. Voids, white spots
Defect size Max. defects per sq. ft.
0.032" – 0.065" 1
0.020" – 0.031" 2
0.010" – 0.019" 6

C. Protective backing (paint) Uniform with no conspicuous variations in thickness

Effective size: 1980 mm x 1080 mm, except peripheral dimension 10 mm



PROPERTY	REQUIREMENT	TEST
4.0 COATING		
4.1. Abrasion Taber test (100 cycles)	4% haze	Refer to JIS K 7204
4.2. Coating adhesion (scribe)	No coating removed by adhesive tape	Refer to JIS K 5600-5-6
4.3. Visual defects (coating)	Visual inspection performed	
A. Lint / fibres		
Width < 0.030"	Max. defects per sheet	
Length > 0.500"	0	
Length < 0.500"	1	
B. Scratches		
Width < 0.020"	Max. defects per sheet	
Length > 1.0"	0	
Length 0.500" – 1.0"	1	
Length 0.250" – 0.500"	4	

PROPERTY	TYPICAL VALUE	TEST METHOD
GENERAL		
Specific gravity	1.24	Weight in water method
Water absorption (24 hrs @ 73°F)	0.1 %	Refer to JIS K
MECHANICAL		
Tensile strength	9972 psi	ASTM D638
Tensile elongation	43 %	ASTM D638
Flexural modulus	402000	ASTM D790
Flexural strength	17600 psi	ASTM D790
Izod impact strength		
Notched @ 73°F	13.3 ft-lbs/in	ASTM D256
Unnotched @ 73°F		
THERMAL		
Defection temperature (264 psi)	137.5°C	Refer to JIS K 6735
OPTICAL		
Light transmission	88 – 91 %	Refer to JIS K 6735
FLAMMABILITY		
UL flammability	Equivalent of V-2	UL94
FAA flammability	Passes (a) & (b)	FAR 25.853