Boiling Water Resistance Test

1. Test Method

1.1. Test Standard: NEMA LD3 2000 3.5 (Boiling Water Resistance)

1.2. Test Condition

- Condition prior to Test: 48 hours at 23℃ ± 2℃ (73.4℉ ± 3℉), 50% ± 5% relative humidity

1.3. Test Procedure

1) Fill the heating vessel to 12mm(1/2inche) from the rim with water and heat it until the water boils vigorously.
2) Carefully remove the vessel from the hot plate and pour approximately 10ml of boiling water on the horizontal surface of the test specimen and set the vessel containing the remainder of the boiling water in this puddle.
3) A flat-bottom heating vessel in accordance with drawing on next page.
4) Allow the vessel to remain in the place for 20 minutes.
5) Remove the vessel. Allow the specimen to stabilize at room temperature for min 24 hours.
6) Examine the conditioned test specimen

1.4. Classification

1) No Effect – No change in color or surface finish
2) Slight Effect – A change in color or surface finish only visible at certain angles and directions
3) Moderate Effect – A Change in color or surface finish visible at all angles and directions, but does not notably alter the original condition of the specimen
4) Severe Effect – A change in color or surface finish that markedly alters the original condition of the specimen

2. Test Result

Sample	Blisters	Crazing	Whitening	Cracking	Dulling
1	No Effect	No Effect	No Effect	No Effect	No Effect
2	No Effect	No Effect	No Effect	No Effect	No Effect
3	No Effect	No Effect	No Effect	No Effect	No Effect