



TEST RESULTS

PE FOAM FOR INSULATION WATER TANK



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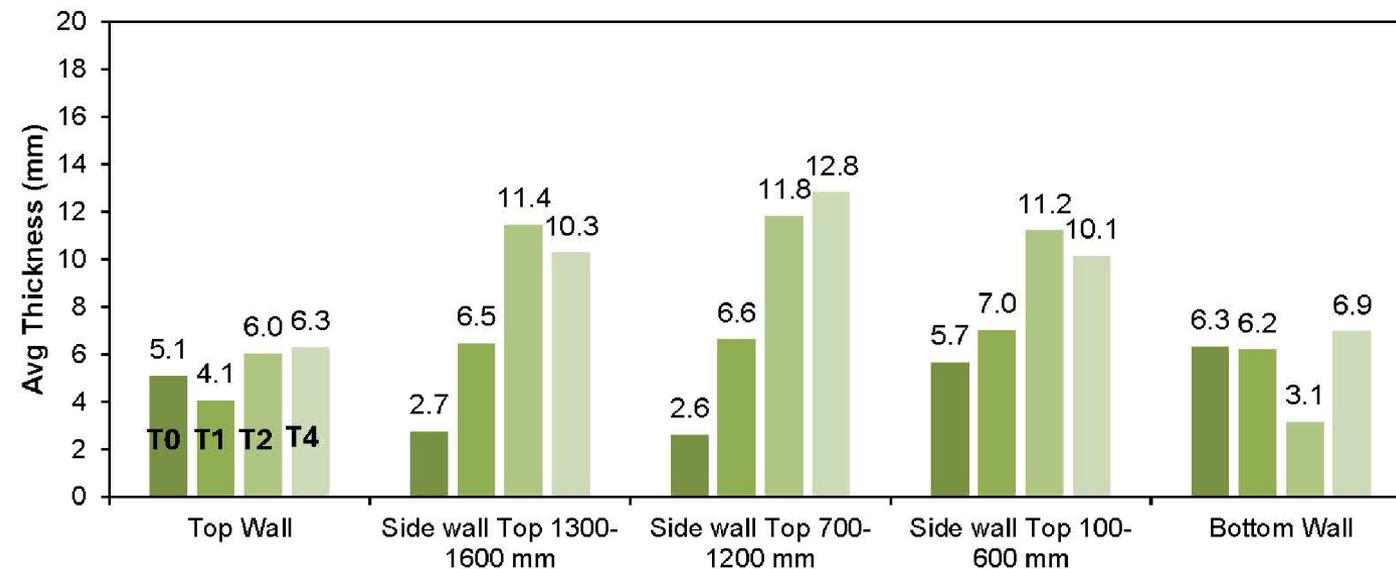
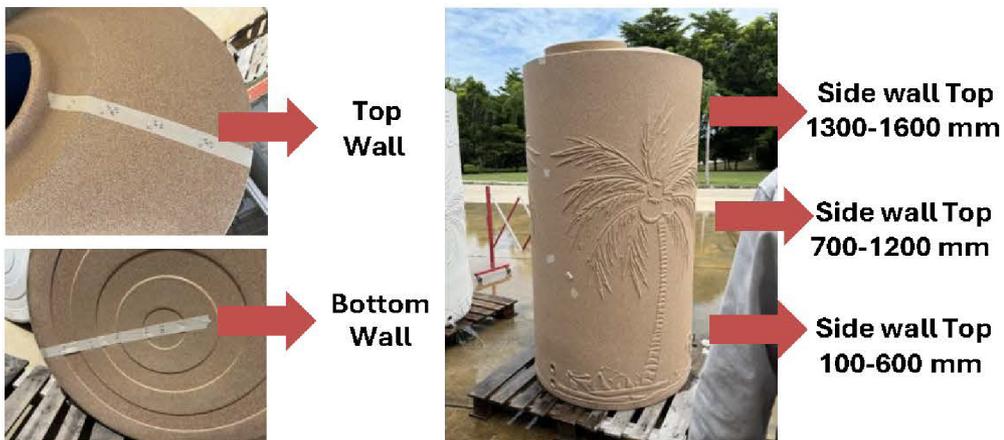
TANK PERFORMANCE TEST

➤ Tank Formulation

Tank Code	Shot weight (kg)			
	Granite	PE Foam	Blue	Total
T0 (Blow molded Tank)	N/A	N/A	N/A	N/A
T1 (Rotomolded Tank)	20.4	0.0	13.6	34.0
T2 (Rotomolded Tank with PE foam)	17.0	7.0	10.0	34.0
T4 (Rotomolded Tank with PE foam)	16.1	8.7	9.2	34.0



➤ Tank Wall Thickness



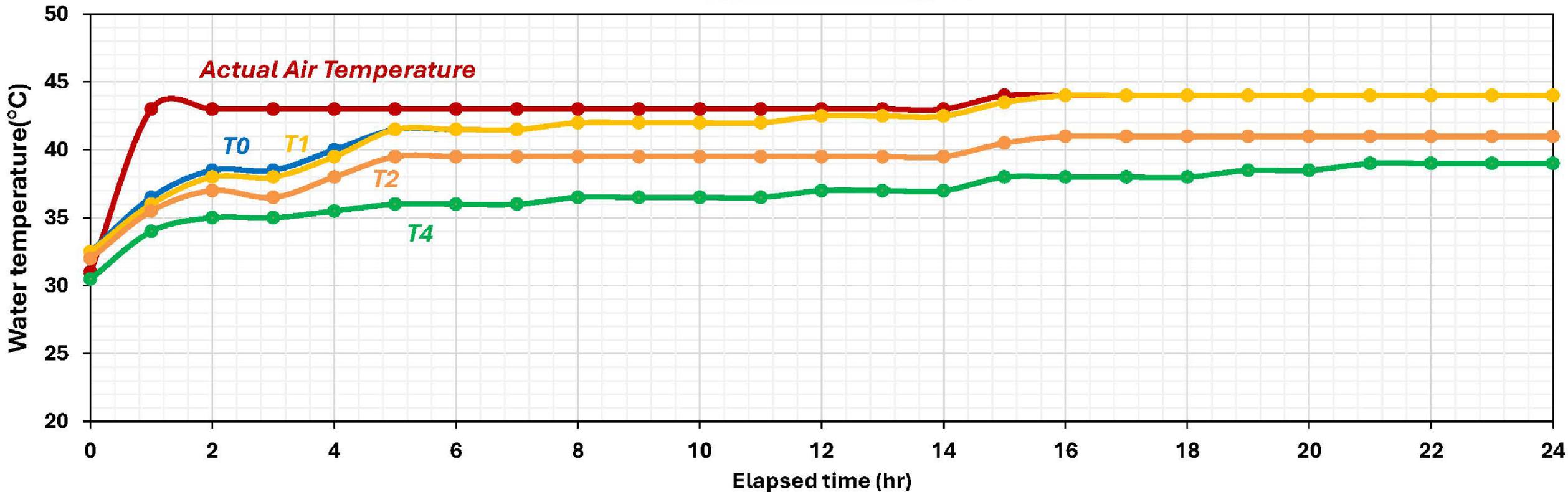
Note: This information is to the best of our knowledge accurate. However, the circumstances and conditions in which it may be used are beyond our control and we do not accept liability for any loss or damage that may occur, nor do we offer any warranty of immunity against patent infringement. The values indicated only describe a guideline. They do not constitute specification limits.

TANK PERFORMANCE TEST

➤ Thermal Insulation Test in Oven Chamber

Test Condition

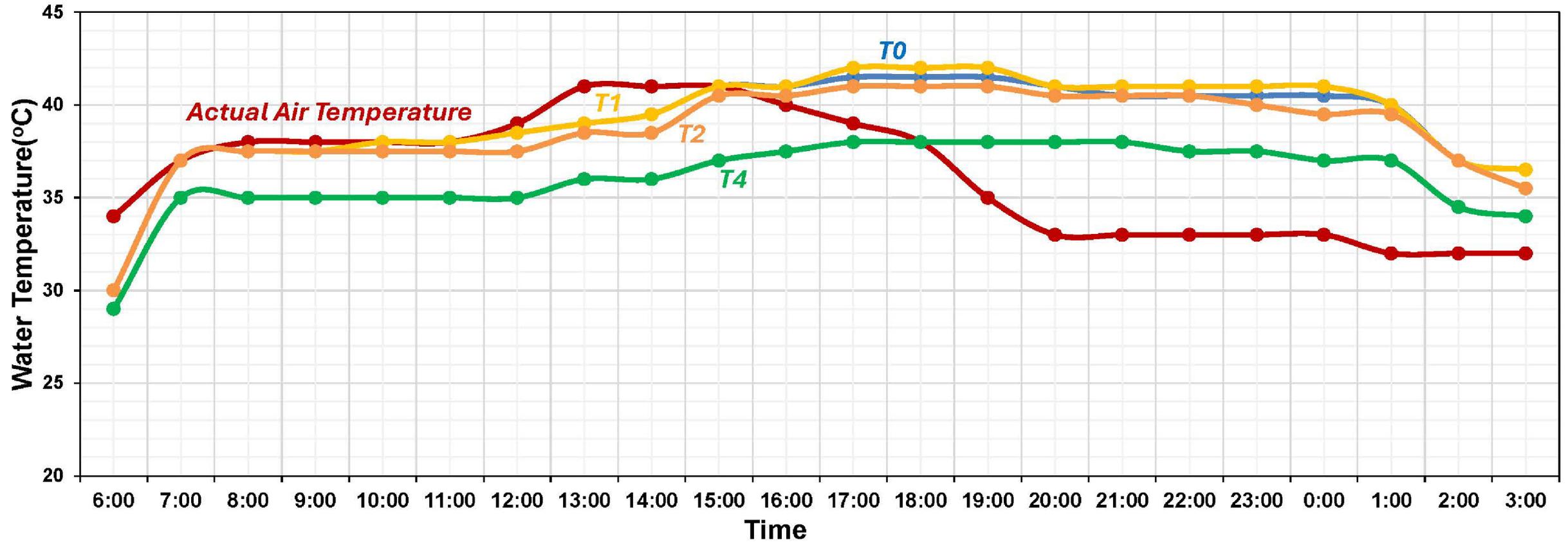
- Setting temperature: 45°C
- Initial water temperature ~30°C
- Measure water temperature every 1 hr. till 24 hrs.



TANK PERFORMANCE TEST

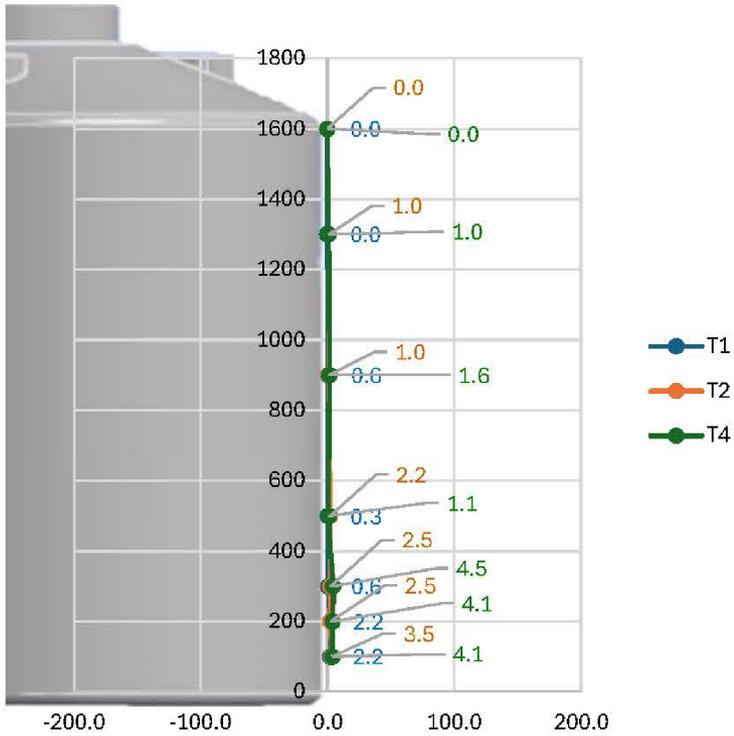
➤ Temperature Environmental Simulation

- Design the oven chamber temperature to follow the real-life weather.



TANK PERFORMANCE TEST

➤ Radial Deformation



Tank	Radial expansion (mm)	%Radial different
T1	0.8	0.18
T2	1.8	0.40
T4	2.3	0.51

Remark: TIS1379 criteria: OD different < 2%

➤ Opacity and Leak test

Tank	%Transmission
T1	0.0003
T2	0.0006
T4	0.0010

Remark: TIS1379 criteria: %Transmission < 0.1%



Pass leak test after filling water for 10 days

All tanks pass TIS1379 criteria in Radial Deformation, Opacity and Leak Test

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THANK YOU

