

REPORT OF TESTS

Description	Polyethylene Sheet – 1000 Gauge		
Tested for	Maple Leafe Plastic Industry LLC, Dubai Industrial City, Phase 2, WH# O-16, Dubai, UAE		
Lab Ref. No.	WR22-04527 (Page 1 of 3)	Request No.	D22-03934
Date Received	12.09.2022	Date Reported	14.09.2022

Client's reference : DQ37644, Requisition dated 12.09.2022
Sampling Date : Not Given
Sampled By : Client

1.0 Introduction

Further to the test work instructions received from M/s. Maple Leafe Plastic Industry LLC, Dubai Industrial City, dated 12.09.2022, one sample of Polyethylene Sheet – 1000 Gauge provided has been tested for the following by Al-Futtaim Element Materials Technology Dubai (L.L.C)

- 1.1 Thickness
- 1.2 Density
- 1.3 Tensile Strength & Elongation
- 1.4 Tear Resistance
- 1.5 Static Co-efficient of friction

2.0 Sample Reference

Sample reference	Polyethylene Sheet – 1000 Gauge
Source	Maple Leafe Plastic Industry LLC, Dubai Industrial City
AFE No.	D22-03934/2
Sample submitted by	Client

3.0 Results

Results are given on the attached sheets.

Results

Sample Reference: Polyethylene Sheet – 1000 Gauge
AFE Sample No. D22-03934/2

3.1 Thickness

Test Method: ASTM D6988-03

Test	Results (mm)	Average (mm)	Average (Micron)
Thickness	0.253, 0.254, 0.252, 0.251, 0.253 0.252, 0.254, 0.250, 0.254, 0.253	0.253	253

3.2 Density

Test Method: ASTM D792 - 13

Test	Results
Density	879 kg/m ³

3.3 Tensile Strength & Elongation

Test Method: ASTM D638-14

Test Ref.	Tensile strength (N/mm ²)	Elongation (%)
	Longitudinal	
1	25.9	610
2	27.4	598
3	27.8	616
4	30.2	596
5	29.4	640
Average	28.1	612

Test Ref.	Tensile strength (N/mm ²)	Elongation (%)
	Transverse	
1	25.7	610
2	28.5	624
3	29.4	616
4	29.2	558
5	28.4	578
Average	28.2	597

Results

Sample Reference: Polyethylene Sheet – 1000 Gauge
AFE Sample No. D22-03934/2

3.4 Tear Resistance

Test Method: ASTM D624-2000

Test Ref.	Thickness (mm)	Load (N)	Longitude Direction
			Tear Resistance (N/mm)
1	0.252	26.5	105.2
2	0.250	26.7	106.8
3	0.251	29.2	116.3
4	0.252	29.3	116.3
5	0.250	27.2	108.8
Average			110.7

Test Ref.	Thickness (mm)	Load (N)	Transverse Direction
			Tear Resistance (N/mm)
1	0.250	26.6	106.4
2	0.251	27.5	109.6
3	0.250	28.9	115.6
4	0.249	27.2	109.2
5	0.252	28.6	113.5
Average			110.9

3.5 Static Co-efficient of friction (with respect to concrete)

Test Method: ASTM D1894-14.

Test Ref.	Initial Motion Scale		Static Co-efficient of Friction
	In - N	In - grams	
1	1.27	129.5	0.522
2	1.32	134.6	0.543
3	1.28	130.5	0.518
4	1.36	138.7	0.561
5	1.28	130.5	0.531
Average			0.535

Note: Concrete Block Weight – 248.5g


Zahoor Ahmad
 Lab Manager Site

For and on behalf of Al Futtaim Element Materials Technology Dubai (L.L.C)
 Tested by: SSK/SH, Date tested: 13.09.2022
 Sampled by the client, certificate of sampling was not given.