

TEST REPORT NO. ELA/L-221.181/12
SAFETY NET
TENSILE STRENGTH

CLIENT: **EQUIPESCA EQUIPAMENTOS DE PESCA LTD.**
 Located at Rua Henrique Veiga, 41 – Fazenda Santa Genebra
 13080-290 – Campinas – SP
 Ref.: (57759)

1. SAMPLE IDENTIFICATION

01 (one) sample, submitted and identified by the client as a safety net (EquiPLEX). A diamond-mesh netting with 50 mm cells, manufactured from white knotted high-density monofilament polyethylene PE, 30/21 twine, anti-UV and antioxidant additives, 4,0 mm twine (81 twisted yarn strands of 0,30 mm each), submitted to the laboratory by the client on June 12, 2012.

Internal identification no. L- 0068071

2. TEST METHOD(S)

2.1. NBR 16.046-1:2012 – Safety nets for construction applications, part 1: Manufacturing of safety nets.

2.2. ASTM G 154/06 – Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.

3. RESULTS

3.1. Tensile strength in longitudinal and transverse directions - original

TEST	MEASURED VALUES						STANDARD DEVIATION
	CP 01	CP 02	CP 03	CP 04	CP 05	MEAN/MESH	
Ultimate longitudinal tensile strength	1492	1563	1583	1589	1593	521	41.91
Ultimate transverse tensile strength	1593	1505	1559	1628	1628	528	51.78
SPECIFIED VALUE						320 N/mesh (mín.)	2.5% (máx.)

The results shown in this document refer only to the sample(s) tested.

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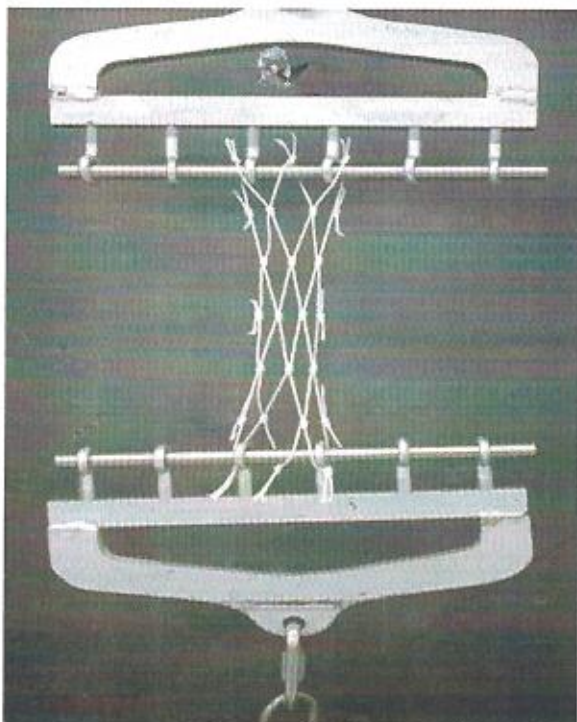


Fig. 1 – Longitudinal tensile strength

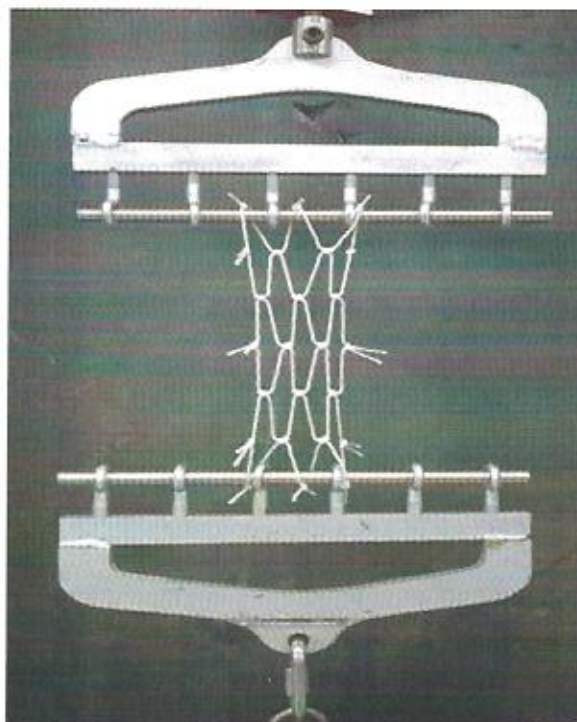


Fig. 2 – Transverse tensile strength

3.2. Accelerated weathering after 2000 hours of continuous cycles of 4 hour UV exposure at 60°C and 4 hour condensation exposure at 50°C

TEST	MEASURED VALUES						MEAN/MESH	STANDARD DEVIATION
	CP 01	CP 02	CP 03	CP 04	CP 05			
Ultimate longitudinal tensile strength, N	967.9	979.7	1207.2	1067.0	1157.2	357	105.9	
Ultimate transverse tensile strength, N	1520.1	1047.4	1110.1	1258.2	1698.5	442	276.3	
SPECIFIED VALUE						320 N/mesh (mín.)	2.5% (máx.)	

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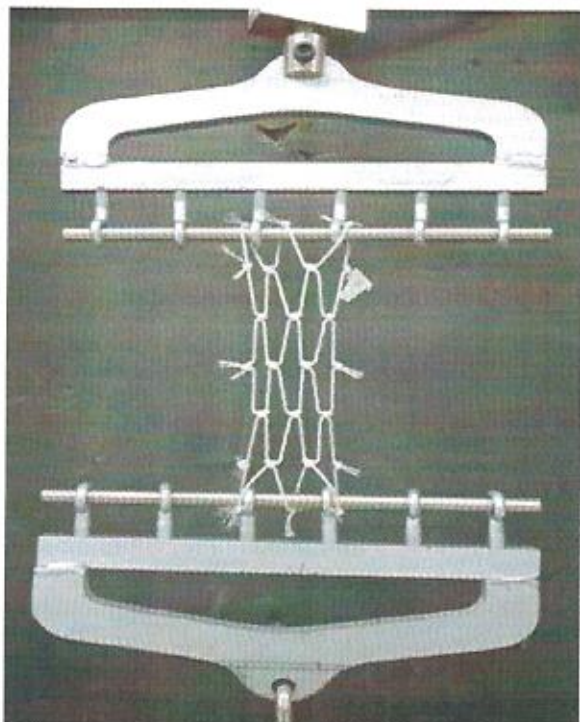


Fig. 3 – Longitudinal tensile strength

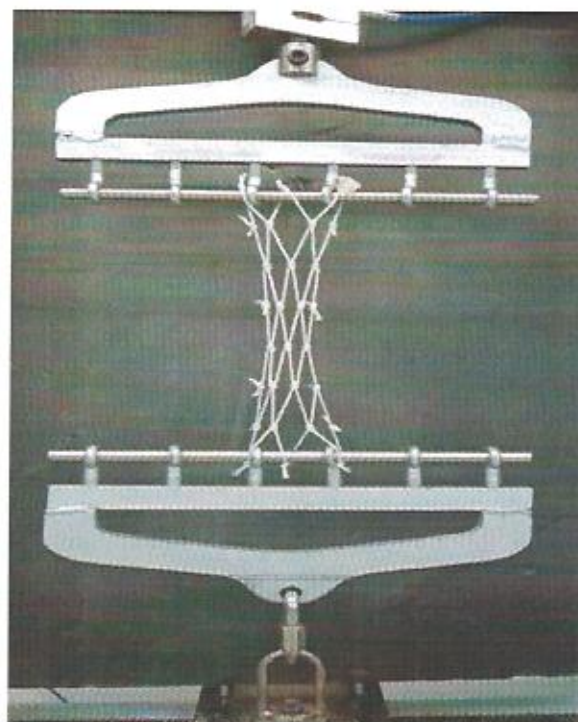


Fig. 4 – Transverse tensile strength

- 3.3. Accelerated weathering after 2000 hours of continuous cycles of 4 hour UV exposure at 60°C and 4 hour condensation exposure at 50°C, with subsequent visual inspection.

TEST	MEASURED VALUES
Occurrence of fissures, material degradation, significant discoloration, cracking or color tone change detected after weathering	Slight increase in yellowness

4. CONCLUSION


- 4.1. The results comply with the standard NBR 16.046-1:2012 – Safety nets for construction applications, part 1: Manufacturing safety nets – requirements met, except items 3.1 and 3.3 in terms of standard deviation in the performed tests.

5. TESTING DATE (S)


Testing conducted between June 12 and October 03, 2012.

São Paulo, October 3, 2012.

L. A. FALCÃO BAUER LTD.
Center for Quality Control Inspection


DANIEL A. LEAL
Laboratory Coordinator

L. A. FALCÃO BAUER LTD.L.
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