



Test Certificate No. 207094.1/08-6

Date of test 16.6.2008
/ B

Applicant Primo Pick N.Pack Ltd.
Primo House, 1610, Wright Town, Jabalpur - 482 002 (M.P.), India

Test pieces *Flexible Intermediate Bulk Container - SWL = 1000 kg, SF = 5:1
Single-trip FIBC, Category 3.2.3, EFIBCA-Standard 001*

Design specification

Manufacturer's type designation PPL-5

Dimensions (90 cm x 90 cm) x 90 cm

Tare 990 g

Body fabric Polypropylene 140 g/m², uncoated, white flat woven fabric layers, each with two blue coloured tapes*)

Suspension Four white PP-webbing (40 mm wide, 32 g/m), sewn into the vertical seams in a length of 35 cm / 70 cm

Details Four vertical seams, two horizontal seams at the bottom (U-panel design) / overlock + chain sewings / fabric folded in all the seams / open top**) / without inliner / discharge spout d = 35 cm**) made of PP-fabric 60 g/m² + 20 g/m² coating, double seam

Kind of tests *Type Tests according to EFIBCA-STANDARD 005*

- 005 § 4.1 Cyclic top lift tests plus final load to failure (tests a + b)
005 § 4.2 Compression tests (tests c + d)

Test conditions Charging with plastic granules (filling height approx. 85 cm), load application with piston and pressure plate (d = 90 cm), 30 cycles of load application to 20 kN and subsequent unloading, then final test cycle to failure, rate of load application 70 kN/min.

Cyclic load and load to failure

Test a After 30 cycles of load application to $P_c = 20$ kN (2040 kg) no visible damages occurred in the test piece. Then the load has been increased up to failure. When reaching a load of $P_b = 53,2$ kN (5420 kg) the fabric tore out of a vertical seam.

Test b After 30 cycles of load application to $P_c = 20$ kN (2040 kg) no visible damages occurred in the test piece. Then the load has been increased up to failure. When reaching a load of $P_b = 54,1$ kN (5510 kg) the fabric tore out of a bottom seam.

Compression **Tests c + d** After compression by $P_k = 40$ kN (4080 kg) no visible damages occurred in the test pieces.

Test result *A safe working load SWL = 1000 kg is allowable.*

The safety factors required SF = 4:1 (compression load), SF = 2:1 (cyclic load) and SF = 5:1 (load at failure) are realized.

Statement of conformity The FIBCs tested comply with the requirements of EFIBCA-Standard 005. FIBCs of this design type are in a condition for safe operation.

Notes Test diagrams see on page 2. Photo of a test piece see on page 3.
*) Raw material: Pure virgin polypropylene (statement of the manufacturer)
**) "Directions for use referring to this certificate" see on page 4.
A test piece is kept in our store for three years. This certificate expires on 30.6.2011.

Competent Engineer

J. O. G.
Jorg Bartel

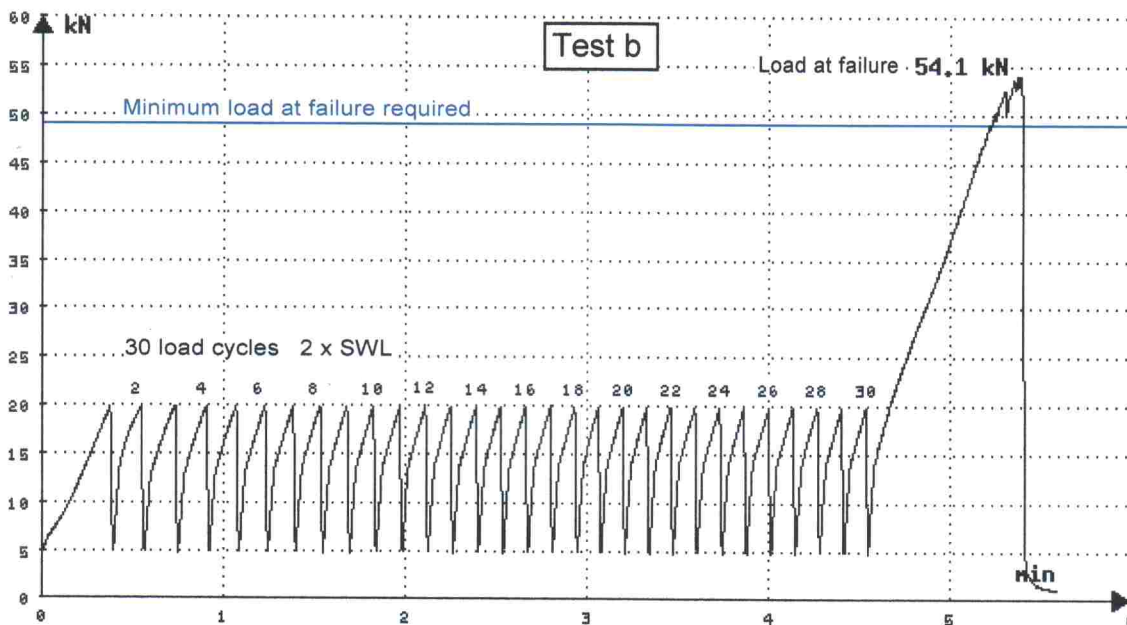
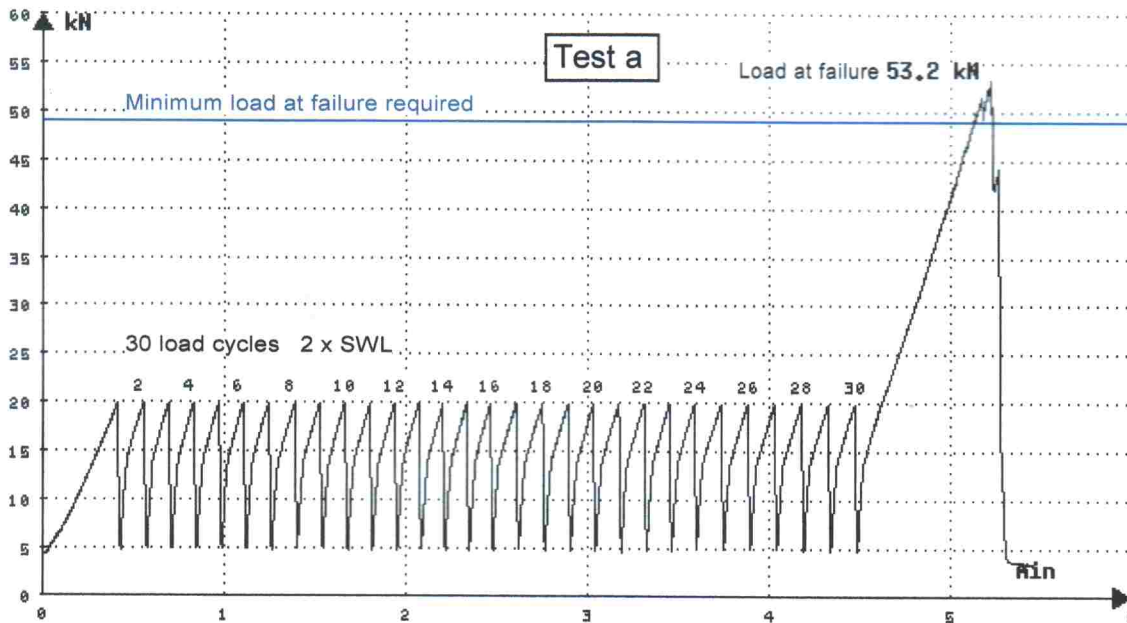


Head of Institute

Dr.-Ing. Kielbassa
Dr.-Ing. Kielbassa



FIBC - Cyclic top lift tests Test diagrams 207094.1 a + b / 08 - 6



Project data

Applicant : Primo Pick N.Pack Ltd.
 Test pieces : FIBC 90 cm x 90 cm x 90 cm
 Safe working load : SWL = 1000 kg
 Safety factor : SF = 5 : 1

Test data

Test date : 16.6.2008
 Test Standard : EFIBCA 005
 Load at failure, test a: $P_b = 53,2 \text{ kN} = 5420 \text{ kg}$
 Load at failure, test b: $P_b = 54,1 \text{ kN} = 5510 \text{ kg}$



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FIBC - Cyclic top lift tests Photo of a test sample



Project data

Applicant : Primo Pick N.Pack Ltd.
Test pieces : FIBC 90 cm x 90 cm x 90 cm
Safe working load : SWL = 1000 kg
Safety factor : SF = 5 : 1

Test data

Test date : 16.6.2008
Test Standard : EFIBCA 005
Load at failure, test a: Pb = 53,2 kN = 5420 kg
Load at failure, test b: Pb = 54,1 kN = 5510 kg



Directions for use referring to this certificate

This certificate covers FIBCs of like design, manufactured using like materials and methods of construction as set down in this certificate and showing dimensions as listed below and in the certificate. The use of other methods or components may render the certificate invalid.

Allowed (covered by this certificate)	Not allowed (not covered by this certificate)
Diameters of discharge spout smaller than 35 cm	Diameters of discharge spout larger than 35 cm
Base without discharge spout	
Base dimensions of between 90 cm x 90 cm and 99 cm x 99 cm provided the same geometry is maintained	Base dimensions smaller than 90 cm x 90 cm Base dimensions larger than 99 cm x 99 cm
Use for one filling and one discharge only	Re-use of the FIBCs
Open top or any other design of top construction	Use after expiring date of this certificate: 30.6.2011

Label

All FIBCs shall be durably marked by means of a permanently attached and easily visible and readable label. The layout of the label referring to this certificate shall be as shown below with the following data:

Manufacturer's Name & Address and Logo Manufacturer's Reference (unique to the hereby certified FIBC type)	
SWL 1000 kg	Safety Factor 5 : 1
Logos of memberships etc.	Test Certificate No 207094.1/08-6
	Test Certificate Date 16.6.2008
	Approved Laboratory LABORDATA
	Test Standard EFIBCA 005
	FIBC Class Single trip
	Date FIBC manufactured
Handling Recommendations / Pictograms (proposals see www.labordata.com)	
Supplier's Name & Address (if required)	