Date of test 18.5.2022
Date of expiry 18.5.2025
Number of pages 3 B / B

This Certificate is only valid when printed in colour and complete with all 3 pages.

Test Certificate No. 12407.2/22-5

Applicant BulkPack Exports Ltd.
"507", "B" Block, 5th Floor, Corporate House, RNT Marg, Indore – 452 001 (M.P.), India

Test piece *Flexible Intermediate Bulk Container - SWL = 1250 kg, SF = 5:1*
Single trip FIBCs for non-dangerous goods acc. ISO 21898

Manufacturer's type designation N/A

Design

Dimensions (100 cm x 100 cm) x 240 cm **Volume** 2400 litres **Tare** 2640 g

Wall fabric Polypropylene 130 g/m², uncoated [1], white flat woven fabric layers, each with one brown, one black, one yellow and two green coloured tapes

Base fabric Polypropylene 160 g/m², uncoated [1]

Suspension Four black PP-webbings (50 mm wide, 35 g/m), sewn into the vertical seams in a length of 80 cm / 170 cm

Details Four vertical seams, four horizontal seams at the bottom / overlock + chain stitching / fabric folded in all the seams / open top [2] / no inliner / edges formstabilized (baffle bag) / discharge spout d = 45 cm [3] made of PP-fabric 90 g/m² + 20 g/m² coating, double seam [2]

Kind of tests *Type Tests according to ISO 21898*

Test a Cyclic top lift test acc. Annex B **Test c** Compression test acc. Annex C

Test conditions Charging with plastic granules (filling height approx. 235 cm), load application with piston and pressure plate (d = 100 cm), rate of load application 70 kN/min.

Cyclic load and load to failure

Sample a After 30 cycles of load application to **P_c = 25 kN** (2550 kg) no visible damages occurred in the test piece. The load has then been increased until failure. When reaching a load of **P_b = 74,2 kN** (7560 kg) a webbing tore at the suspension frame.

Compression

Sample b After six hours compression by **P_k = 50 kN** (5100 kg) no visible damages occurred in the test piece.

Test result *A safe working load SWL = 1250 kg / SF = 5:1 is allowable.*

Statement of conformity The FIBCs tested comply with the requirements of ISO 21898.
FIBCs of this design type are in a condition for safe operation.

Notes

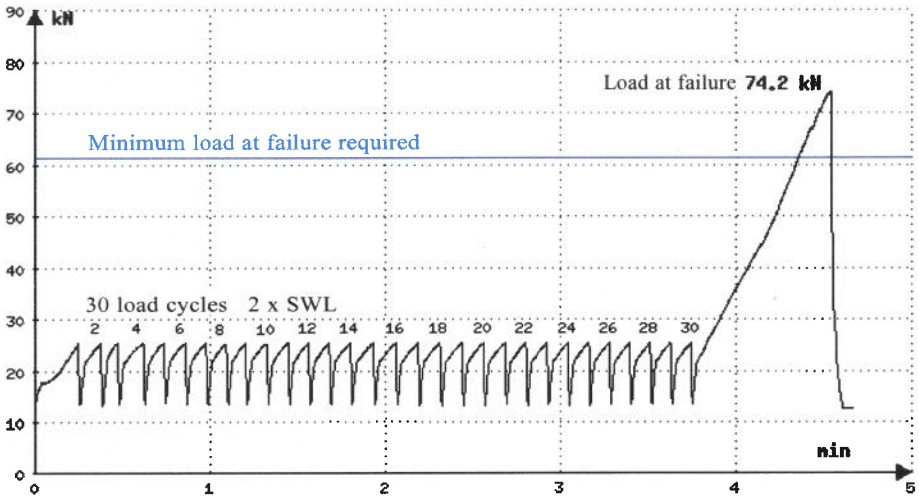
This certificate is restricted to FIBCs produced by BulkPack Exports Ltd.
All material weights are minimum weights and may not be lower than the values shown.
Test diagram and photo of a test piece see page 2. This certificate expires on 18.5.2025.
[1] Raw material: Pure virgin polypropylene (statement of the manufacturer)
[2] "Directions for use referring to this certificate" see page 3.

Competent Engineer
i.V.
Jorg Bartel

LABORDATA International Materials Testing Institute

Head of Institute
Dr. Herbert Kielbassa

FIBC cyclic top lift test - test diagram 12407.2.1/22 - 5



Project data

Applicant	: BulkPack Exports Limited
Test piece	: FIBC 100 cm x 100 cm x 240 cm
Safe working load	: SWL = 1250 kg
Safety factor	: SF = 5 : 1

Test data

Test date	: 18.5.2022
Test Standard	: ISO 21898
Load at failure	: Pb = 74,2 kN = 7560 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. It is the responsibility of FIBC manufacturers to ensure the samples tested are representative of the production.

Allowed (covered by this certificate)	**Not allowed** (not covered by this certificate)
Diameters of discharge spout smaller than **45** cm	Diameters of discharge spout larger than **45** cm
Base without discharge spout	
Base dimensions of between **100** cm x **100** cm and **110** cm x **110** cm provided the same geometry is maintained	Base dimensions smaller than **100** cm x **100** cm Base dimensions larger than **110** cm x **110** cm
Bag heights **235** cm - **240** cm	Bag heights diverging from **235** cm - **240** cm
Use for one filling and one discharge only	Re-use of the FIBCs
Open top or any other design of top construction	Manufacture after expiry date of this certificate: **18.5.2025**

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 1250 kg	**Safety Factor 5 : 1**	
Your logos etc.	**Test Certificate No**	**12407.2/22-5**
	Test Certificate Date	**18.5.2022**
	Approved Laboratory	**LABORDATA**
	Test Standard	**ISO 21898**
	FIBC Class	**Single trip**
	Date FIBC manufactured	
Handling Recommendations / Pictograms (proposals see www.labordata.com)		
Supplier's Name & Address (if required)		