Date of test	2.2.2021
Date of expiry	2.2.2024
Number of pages	3 P / B

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

Test Certificate No. 11969.1/21-2

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

Test piece ***Flexible Intermediate Bulk Containers - SWL = 250 kg, SF = 5:1***
Single trip FIBCs for non-dangerous goods acc. ISO 21898

Design

Manufacturer's type designation N / A

Dimensions	(90 cm x 90 cm) x 120 cm
Volume	1100 litres
Tare	810 g
Body fabric	Polypropylene 55 g/m² + 20 g/m² coating, white fabric layers, each with one green, one orange and one pink coloured tape [1]
Suspension	Four white PP-webbings (40 mm wide, 28 g/m), sewn into the vertical seams in a length of 25 cm / 50 cm
Details	Four vertical seams, two horizontal seams at the bottom (U-panel design) / double chain stitching / fabric folded in all the seams / open top [2] / no inliner / no discharge spout [2]

Kind of tests ***Type Tests according to ISO 21898***
Test a Cyclic top lift test acc. Annex B **Test b** Compression test acc. Annex C

Test conditions Charging with plastic granules (filling height approx. 115 cm), load application with piston and pressure plate (d = 90 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 = **5 kN** (510 kg) no visible damages occurred in the test piece. The load has then been increased until failure. When reaching a load of P_b = **16,9 kN** (1720 kg) the fabric tore at a vertical seam.

Compression
Sample b After six hours compression by P_k = **10 kN** (1020 kg) no visible damages occurred in the test piece.

Test result
A safe working load SWL = 250 kg / SF = 5:1 is allowable.

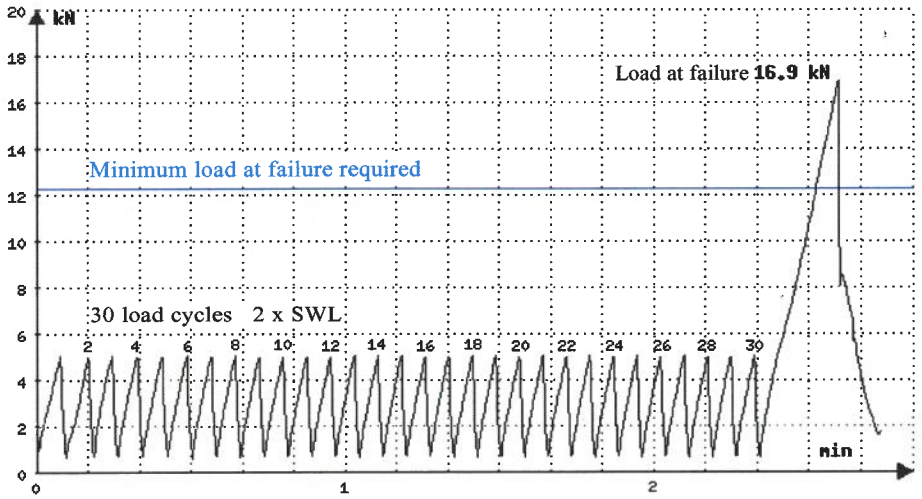
Statement of conformity The FIBCs tested comply with the requirements of ISO 21898.
FIBCs of this design type are in a condition for safe operation.

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 2.2.2024.
[1] Raw material: Pure virgin polypropylene (statement of the manufacturer)
[2] "Directions for use referring to this certificate" see page 3.

Competent Engineer
Christina Pape

Head of Institute
Dr. Herbert Kielbassa

FIBC cyclic top lift test - test diagram 11969.1/21 - 2



Project data

Applicant	: BulkPack Exports Ltd.
Test piece	: FIBC 90 cm x 90 cm x 120 cm
Safe working load	: SWL = 250 kg
Safety factor	: SF = 5 : 1

Test data

Test date	: 2.2.2021
Test Standard	: ISO 21898
Load at failure	: Pb = 16,9 kN = 1720 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)
	Base with 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
Bag height **120 ± 2** cm	Bag heights diverging from **120 ± 2 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: **2.2.2024**

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 250 kg **Safety Factor 5 : 1**

Your logos etc.	**Test Certificate No**	**11969.1/21-2**
	Test Certificate Date	**2.2.2021**
	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)