



CERTIFICATE OF ANALYSIS

FORMAT ID: BPS-FMT-COA-003	REVISION: 00	EFFECTIVE DATE: 19.07.2022	PAGE: 1 of 2
--------------------------------------	---------------------	--------------------------------------	---------------------

01 Certificate and Product Details

Certificate no.	1220713418	Certificate date	19.07.2022
Item code	BPS-VF-150-2207-C	Item name	BENZPACK VCI Film 150 Microns
Batch / lot no.	VF150-0722-C10	Batch quantity	4,690 KG
Standard size / gauge	150 Microns	Date of manufacturing	12 July 2022
Best before	11 July 2024	Date of test	18 July 2022
Customer name	Northern Industrial OEM	Customer PO no.	NIO/2207/PO-64
Invoice no.	BPS/22-23/1217	Quantity shipped	4,360 KG
Specification ref.	BENZPACK VCI Film TDS Rev. 04	Customer item code	NIO-VF150

Release statement: The material identified above has been sampled and evaluated against the approved BENZ product specification and released for dispatch where the reported results conform to the stated limits.

02 Inspection and Test Results

Test parameter	Protocol	Unit	Min. value	Max. value	Test value
Total GSM (Avg.)	BPS - QA - 02	SQM	NA	NA	137.8
Thickness, (Avg.)	BPS - QA - 32	MM	140	160	151
Ultimate Tensile Strength (MD)	BPS - QA - 23	N/mm2 (MD)	28	30	28.6
Ultimate Tensile Strength (TD)	BPS - QA - 23	N/mm2 (TD)	32	35	33.1
WVTR	BPS - QA - 45	Grm /SQM/24 Hrs	1.0	1.8	1.6
Heat Seal Strength	BPS - QA - 18	grms / 10 mm	1700	1880	1811
VCI Concentration	BPS - QA - 03	Percentage	10	NA	10.2
Dart Drop (VCI Film)	BPS - QA - 76	550 gm min	550	625	581
Condensation Test	BPS - QA - 48	DVI 514	Pass	NA	Pass
German VIA Test	BPS - QA - 49	TL 8135 - 0002	Pass	NA	Pass
American FED Test	BPS - QA - 50	FED-101C-4041	Pass	NA	Pass

VCI Razor Blade Test	BPS - QA - 74	ASTM G 31 - 72	Pass	NA	Pass
Part Protection Properties	BPS - QA - 53	TL 8135 - 0043	1 Year	2 Years	2 Years
Shelf Life	BPS - QA - 51	TL 8135 - 0002	2 Years	NA	2 Years
VCI Checking (Humidity C)	BPS - QA - 63	ASTM D 1748	Inner Face	NA	Inner Face

03 Confirmation and Shipping Data

Confirmation	We hereby confirm that the material under this certificate conforms to our manufacturing specification.
Status	YES conforms to our manufacturing specification
Deviation option	Does not conform, but accepted against approved deviation / validation, if specifically authorised.
TDS declaration	It is further confirmed that the product conforms to the current published technical data sheet and approved specification.

Shipping data

Customer name	Northern Industrial OEM
Ship to name	Pantnagar, Uttarakhand
Customer PO number	NIO/2207/PO-64
Customer item code	NIO-VF150
Invoice no.	BPS/22-23/1217
Quantity shipped	4,360 KG

Certificate note: This COA is system generated by BENZ Packaging Solutions Pvt. Ltd. and is valid without signature, unless customer or regulatory requirements specify authorised sign-off.