



CERTIFICATE OF ANALYSIS

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01 Certificate and Product Details

Certificate no.	1230412338	Certificate date	22.04.2023
Item code	BPS-VF-150-2304-B	Item name	BENZPACK VCI Film 150 Microns
Batch / lot no.	VF150-0423-B15	Batch quantity	4,980 KG
Standard size / gauge	150 Microns	Date of manufacturing	16 April 2023
Best before	15 April 2025	Date of test	21 April 2023
Customer name	Northern Precision OEM	Customer PO no.	NPO/23Q2/208
Invoice no.	BPS/23-24/0792	Quantity shipped	4,610 KG
Specification ref.	BENZPACK VCI Film TDS Rev. 04	Customer item code	NPO-VCI150

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	138.5
Thickness, (Avg.)	BPS - QA - 32	MM	140	160	153
Ultimate Tensile Strength (MD)	BPS - QA - 23	N/mm2 (MD)	28	30	28.9
Ultimate Tensile Strength (TD)	BPS - QA - 23	N/mm2 (TD)	32	35	33.5
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	1822
VCI Concentration	BPS - QA - 03	Percentage	10	NA	10.1
Dart Drop (VCI Film)	BPS - QA - 76	550 gm min	550	625	592
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 Precision OEM
Ship to name	Haridwar, Uttarakhand
Customer PO number	NPO/23Q2/208
Customer item code	NPO-VCI150
Invoice no.	BPS/23-24/0792
Quantity shipped	4,610 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.