



INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

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CERTIFICATE OF ANALYSIS

Part Number:	VTPNWLS-99
Product Type:	Polyester Wiper
Edge Treatment:	Laser Sealed
Lot Number:	250515-101128
Sample Received Date:	05-20-2025
Manufacturing Date:	05-15-2025
Test Date:	05-23-2025

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Physical Properties

Test	Method	Specification	Actual	Result
Dimensions	Tape Measure	9" x 9" ($\pm 0.5"$)	8.9 x 9.0	Pass
Basic Weight	TAPPI T-410	$135 \pm 5 \text{ g/m}^2$	135	Pass

Absorbency

Test	Method	Specification	Actual	Result
Sorptive Efficiency	IENT-RP.CC004.4	Min. 2 mL/g	2.2	Pass
Sorptive Capacity	IENT-RP.CC004.4	Min. 310 mL/m ²	356	Pass
Sorptive Rate	IENT-RP.CC004.4	< 1 sec	0.5	Pass

Cleanliness

Test	Method	Specification	Actual	Result
LPC ($\geq 0.5\mu\text{m}$)	IENT-RP.CC004.4	< 10×10^6 particles/m ²	8.57	Pass
TNVR - IPA	IENT-RP.CC004.4	Max. 0.1 g/m ²	0.070	Pass
TNVR – DI H2O	IENT-RP.CC004.4	Max. 0.02 g/m ²	0.006	Pass

Extractables

Test Method: IEST-RP.CC004.4

Ions	Specification	Actual	Result
Sodium	Max. 0.2 ppm	0.087	Pass
Potassium	Max. 0.2 ppm	0.041	Pass
Calcium	Max. 0.5 ppm	0.083	Pass
Magnesium	Max. 0.2 ppm	0.048	Pass
Ammonium	Max. 0.3 ppm	0.017	Pass
Nitrate	Max. 0.3 ppm	0.047	Pass
Fluoride	Max. 0.2 ppm	0.022	Pass
Nitrite	Max. 0.2 ppm	ND	Pass
Bromide	Max. 0.2 ppm	ND	Pass
Phosphate	Max. 0.3 ppm	ND	Pass
Chloride	Max. 0.2 ppm	0.034	Pass
Sulphate	Max. 0.2 ppm	0.010	Pass

Fourier Transform Infra-Red Test

FTIR	Method	Specification	Actual	Result
Silicone, Amide & DOP	IEST-RP.CC004.4	Absent	Absent	Pass

Notes:



Tested by:
Renugaa Krishnan
 Laboratory Coordinator



Approved by:
Vijendraan Venkitasalam
 Quality Manager