



INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

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CERTIFICATE OF ANALYSIS

Part Number:	VTPNWLS-44
Product Type:	Polyester Wiper
Edge Treatment:	Laser Sealed
Lot Number:	250315-101088
Sample Received Date:	03-20-2025
Manufacturing Date:	03-15-2025
Test Date:	03-26-2025

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Physical Properties

Test	Method	Specification	Actual	Result
Dimensions	Tape Measure	4" x 4" ($\pm 0.5"$)	4.0 x 4.0	Pass
Basic Weight	TAPPI T-410	$135 \pm 5 \text{ g/m}^2$	140	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	396	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	7.70	Pass
TNVR - IPA	IENT-RP.CC004.4	Max. 0.1 g/m ²	0.014	Pass
TNVR – DI H2O	IENT-RP.CC004.4	Max. 0.02 g/m ²	0.009	Pass

Extractables

Test Method: IEST-RP.CC004.4

Ions	Specification	Actual	Result
Sodium	Max. 0.2 ppm	0.031	Pass
Potassium	Max. 0.2 ppm	0.077	Pass
Calcium	Max. 0.5 ppm	0.076	Pass
Magnesium	Max. 0.2 ppm	0.045	Pass
Ammonium	Max. 0.3 ppm	0.027	Pass
Nitrate	Max. 0.3 ppm	0.047	Pass
Fluoride	Max. 0.2 ppm	ND	Pass
Nitrite	Max. 0.2 ppm	ND	Pass
Bromide	Max. 0.2 ppm	ND	Pass
Phosphate	Max. 0.3 ppm	0.013	Pass
Chloride	Max. 0.2 ppm	0.028	Pass
Sulphate	Max. 0.2 ppm	0.013	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