



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:	241201-101033
Sample Received Date:	12-09-2024
Manufacturing Date:	12-01-2024
Test Date:	12-13-2024

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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	368	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	5.49	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	0.007	Pass

Extractables

Test Method: IEST-RP.CC004.4

Ions	Specification	Actual	Result
Sodium	Max. 0.2 ppm	0.014	Pass
Potassium	Max. 0.2 ppm	0.017	Pass
Calcium	Max. 0.5 ppm	0.017	Pass
Magnesium	Max. 0.2 ppm	0.035	Pass
Ammonium	Max. 0.3 ppm	ND	Pass
Nitrate	Max. 0.3 ppm	ND	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	ND	Pass
Chloride	Max. 0.2 ppm	0.027	Pass
Sulphate	Max. 0.2 ppm	0.056	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