



INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

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CERTIFICATE OF ANALYSIS

Part Number:	VTPNW-2144
Product Type:	Polyester Wiper
Edge Treatment:	Cold Knife Cut
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	21" x 44" ($\pm 1.0"$)	20.9 x 44.0	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	388	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	< 11×10^6 particles/m ²	3.46	Pass
TNVR - IPA	IENT-RP.CC004.4	Max. 0.1 g/m ²	0.080	Pass
TNVR – DI H2O	IENT-RP.CC004.4	Max. 0.02 g/m ²	0.003	Pass

Extractables

Test Method: IEST-RP.CC004.4

Ions	Specification	Actual	Result
Sodium	Max. 0.2 ppm	0.012	Pass
Potassium	Max. 0.2 ppm	0.022	Pass
Calcium	Max. 0.5 ppm	0.013	Pass
Magnesium	Max. 0.2 ppm	0.073	Pass
Ammonium	Max. 0.3 ppm	0.011	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	0.015	Pass
Sulphate	Max. 0.2 ppm	ND	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