



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:	230803-100753
Sample Received Date:	08-24-2023
Manufacturing Date:	08-03-2023
Test Date:	09-07-2023

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Physical Properties

Test	Method	Specification	Actual	Result
Dimensions	Tape Measure	9" x 9" ($\pm 0.5"$)	9.0 x 9.0	Pass
Basic Weight	TAPPI T-410	135 $\pm$ 5 g/m ²	136	Pass

Absorbency

Test	Method	Specification	Actual	Result
Sorptive Efficiency	IENT-RP.CC004.3	Min. 2 ml/g	2.2	Pass
Sorptive Capacity	IENT-RP.CC004.3	Min. 310 ml/m ²	331	Pass
Sorptive Rate	IENT-RP.CC004.3	< 1 sec	0.5	Pass

Cleanliness

Test	Method	Specification	Actual	Result
LPC ($\geq 0.5\mu\text{m}$)	IENT-RP.CC004.3	< 10 x 10 ⁶ particles/m ²	6.10	Pass
TNVR - IPA	IENT-RP.CC004.3	Max. 0.1 g/m ²	0.060	Pass
TNVR – DI H2O	IENT-RP.CC004.3	Max. 0.02 g/m ²	0.006	Pass

Extractables

Test Method: IEST-RP.CC004.3

Ions	Specification	Actual	Result
Sodium	Max. 0.2 ppm	0.021	Pass
Potassium	Max. 0.2 ppm	ND	Pass
Calcium	Max. 0.5 ppm	0.088	Pass
Magnesium	Max. 0.2 ppm	ND	Pass
Ammonium	Max. 0.3 ppm	0.022	Pass
Nitrate	Max. 0.3 ppm	0.005	Pass
Fluoride	Max. 0.2 ppm	0.001	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	0.004	Pass
Sulphate	Max. 0.2 ppm	0.002	Pass

Fourier Transform Infra-Red Test

FTIR	Method	Specification	Actual	Result
Silicone, Amide & DOP	IEST-RP.CC004-3	Absent	Absent	Pass

Notes:



Tested by:
Renugaa Krishnan
Laboratory Coordinator



Approved by:
Vijendraan Venkitasalam
Quality Manager