

ISSUE DATE : 30 April 2021
 CUSTOMER : PIP (Protective Industrial)
 PRODUCT TYPE : Cleanroom Class 100 Nitrile Gloves, F/Tip Textured Grip
 PART NO. : (100-333000)

LOT NO. : 2104N2012
 SIZE : 12" Medium
 SURFACE AREA : 1147 cm²
 STERILE Yes (Irradiation lot no: _____)
 No

1. Physical Properties Test

Test Method: ASTM D 5151 & ASTM D 6319

	Visual			Barrier Inspection/ Water Tight Test
	Critical	Major	Minor	
AQL	1.5	2.5	4.0	1.5
Disposition	Accept	Accept	Accept	Accept

Test Method: ASTM D 412

Specification	Tensile (Mpa)	Elongation (%)
	Min 18 Mpa	Min 500 %
Result	22.95	514.0
Disposition	Accept	Accept

2. Water Extractable Ions Test

Anions	F ⁻	Br ⁻	Cl ⁻	NO ₂ ⁻	NO ₃ ⁻	SO ₄ ²⁻	PO ₄ ³⁻
Specification	NA	NA	<0.600	NA	<0.500	<0.200	NA
Result (ug/cm ²)	NA	NA	0.365	NA	0.144	0.051	NA

Cations	Na ⁺	K ⁺	Ca ²⁺	Mg ²⁺	Li ⁺	NH ⁴⁺
Specification	<0.200	<0.100	<0.500	NA	NA	NA
Result (ug/cm ²)	0.040	0.025	0.275	NA	NA	NA

Heavy Metal	Al ³⁺	Fe ³⁺	Cu ²⁺	Zn ²⁺
Specification	NA	NA	NA	NA
Result	NA	NA	NA	NA

Test Method

- IEST-RP-CC005.4
- Seagate
35344-001 Rev. U method/
35366-001.Rev. J Specs
- WD -Media
0010-M-010-0005
- WD -Drive
2092-771917 Rev.AD
- Others

3. Liquid Particle Count Test

LPC	Specification	1	2	3	Ave
Counts / cm ² (≥ 0.5 micron)	<900	640.25	700.95	575.36	638.85

4. Total Non Volatile Residue Test

TNVR	Specification	Result
Solvent DI Water (ug/cm ²)	<10.0	7.0

Not Tested

5. Fourier Transform Infra-Red Test

FTIR	Specification	Result
Silicone, Amide, DOP	Absent	Absent

Not Tested

6. Electrical Properties Test

ESD	Specification	Result		
Surface Resistance (ohms)	< 5x10 ¹¹	7.2x10 ¹⁰	8.0x10 ¹⁰	9.2x10 ¹⁰
Static Decay (seconds)	<2.0	0.6	0.7	0.8
Tribo Electric Charge (volts)	<50	40	40	40

Not Tested

Test Method

- ESD/EOS S11.11
FTMS 101-C,4046
- Seagate
ST1248 Rev. B
- Others

7. Coefficient of Friction Test

COF	Specification	Result
1) Donning side		
2) Gripping side		

Not Tested

Test Method

Noraziah

Prepared by
 (Noraziah Bt Mat Noor)
 Senior Supervisor - Lab

Lee

Approved by
 (EL Lee)
 Manager - Technical Laboratory

Kannan

Approved by
 (Kannan Marimuthu)
 Manager-Regulatory Affairs Quality Assurance

Notes NA : Not Applicable

ND : Not Detected

NT : Not Tested

F-QA35-05