

FLEXITECH SDN BHD

Clean Room Nitrile Gloves For Critical Environment

REV 5-29032007

Technical Specification

1. Material	100% Nitrile material.(Carboxylated butadiene butadiene acrylonitrile copolymer)					
2. Glove Features	Ambidextrous. Beaded cuff for enhance donning Fast adapted to hand shape, comfort and durable. Textured surface for better feel and grip. Smooth surface for smooth feeling.					
3. Colour	White, Blue and Translucent					
4. Glove Specification	ASTM D6319-00, Standard Specification for Nitrile Examination Gloves					
5. Quality Standards	Manufactured according ISO9001-2000 Quality Management System.					
6. Quality Plan	Parameter Inspection Level AQL Liquid Particles Count 3 gloves from every batch, approx 6,000 gloves Passed Extractable Contents 1 glove from every batch, approx 6,000 gloves Passed Holes G 1 1.5 Dimension S 2 4.0 Tensile Properties S 2 4.0 Visual Defects-Major S 4 2.5 Visual Defects-Minor S 4 4.0 Major : Visible holes, Tear, Excessive thin spots, Sticky on inner/outer surfaces Minor : Non-removable dirt, lumps, Defective bead, Stain, Discolouration					
7. Technical properties	Class 10 Specification			Class 100 Specification		
Electrical Properties	At 12.5% R. humidity			At 12.5% R. humidity		
Resisitivity (EST S11.12)	1 x10 ¹¹ ohms/square			1 x10 ¹¹ ohms/square		
	At 50% R. humidity			At 50% R. humidity		
	1 x10 ¹⁰ ohms/square			1 x10 ¹⁰ ohms/square		
With hand on	At 50% R. humidity			At 50% R. humidity		
	1 x10 ⁸ ohms/square			1 x10 ⁸ ohms/square		
Static Decay (RETS-5-003) (1000V - 10V)	At 12.5% R. humidity < 5 seconds At 50% R. humidity < 2 seconds			At 12.5% R. humidity < 3 seconds At 50% R. humidity < 2 seconds		
Total non-volatile residue	1.5 ug/cm ² (IEST-RPCC005)			2.5 ug/cm ² (IEST-RPCC005)		
Particles level (particles/cm ²) Ave.Total 0.5 - 20 um	< 800 (IEST-RPcc005) Orbital Shaker			< 1,500 (IEST-RPcc005) Orbital Shaker		
Extractable Contents (Ionic)	Class 10 Specification			Class 100 Specification		
Silicone	None			None		
Amide	None			None		
Phatalates	None			None		
Fluoride (F ⁻)	< 0.0005 ug/cm ²			< 0.0005 ug/cm ²		
Chloride (Cl ⁻)	< 0.100 ug/cm ²			< 0.200 ug/cm ²		
Bromide (Br ⁻)	< 0.0005 ug/cm ²			< 0.0005 ug/cm ²		
Nitrate (NO ₃ ⁻)	< 0.100 ug/cm ²			< 0.200 ug/cm ²		
Phosphate (PO ₄ ³⁻)	< 0.005 ug/cm ²			< 0.015 ug/cm ²		
Sulfate (SO ₄ ²⁻)	< 0.05 ug/cm ²			< 0.05 ug/cm ²		
Lithium (Li ⁺)	< 0.0005 ug/cm ²			< 0.0010 ug/cm ²		
Sodium (Na ⁺)	< 0.050 ug/cm ²			< 0.100 ug/cm ²		
Ammonium (NH ₄ ⁺)	< 0.050 ug/cm ²			< 0.100 ug/cm ²		
Potassium (K ⁺)	< 0.050 ug/cm ²			< 0.100 ug/cm ²		
Magnesium (Mg ²⁺)	< 0.005 ug/cm ²			< 0.010 ug/cm ²		
Calcium (Ca ²⁺)	< 0.050 ug/cm ²			< 0.200 ug/cm ²		
8. Physical Dimension	USEW77					
Size	XS	S	M	L	XL	XXL
Palm width, (+ - 5 mm)	75	85	95	106	115	120
Weight, (+0.0g, -0.2g)	6.7g	6.9g	7.7g	8.5g	9.1g	10.1g
Length, (+ - 10 mm)	300mm/12 inches					
Thickness, Single-wall (+/- 0.02mm)						
Cuff	0.10mm					
Palm	0.14mm					
Finger-tips	0.15mm					
9. Physical Properties	Before ageing, Min			After ageing, Min		
Tensile strength	15 Mpa			14 Mpa		
Elongation	500%			450%		
10. Packing & Marking	Gloves are packed in a Class 10 cleanroom. Polybags are cleanroom compatible, easy opening and dust-free. 2 stages of 50 gloves vacuum-sealed in 2 bags with cuffs aligned to the opening edge. 10 bags per 2 liner polybags packed in a shipping carton. 1,000 gloves per shipping carton. Batch no and lot no printed on packaging.					
11. Test Report	Each batch tested and documented. Liquid Particles Count data available upon request. Chemicals extractable data available upon request. Chemical Compatibility Information available upon request.					