



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION CENTRE OF EXCELLENCE FOR MEDICAL TEXTILES

Coveralls

Test Parameter	International / Indian Standard	Sample Required	Turn Around Time @	Testing Charges (Rs. per sample)#
Physical Parameters Coveralls for COVID-19 - Specification or Synthetic Blood Penetration Resistance Test	IS 17423 ISO 16603 IS 16546 ASTM F1670	1 Coverall	2 days	4500
Mass Per Unit Area	ISO 9073-1	1 Coverall	1 day	180
Water Vapour Permeability (Cup Method)	ASTM E 96	1 Coverall	2 days	1200
Biological Parameters				
Viral Penetration Resistance Test	ISO 16604 IS 16545 ASTM F 1671	1 Coverall	5 days	10000
Resistance to Dry Microbial Penetration	ISO 22612	1 Coverall	3 days	13500
Resistance to Wet Microbial Penetration	ISO 22610	2 Coverall	5 days	14000

Seam Tapes

Test Parameter	International / Indian Standard	Sample Required	Turn Around Time @	Testing Charges (Rs. per sample)#
Synthetic Blood Penetration Resistance Test	IS 17423 ISO 16603 IS 16546 ASTM F1670	Cross seam 2 Nos; Curved seam 2 Nos; Straight seam 2 nos	2 days	4500
Resistance to Dry Microbial Penetration	ISO 22612	20 X 20 cm (15 numbers)	3 days	13500
Resistance to Wet Microbial Penetration	ISO 22610	25 X 25 cm (30 Numbers)	5 days	14000

GST as applicable (18% at present) for all testing charges quoted in this table and all subsequent tables

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Surgical Gowns & Surgical Drapes

Specification – IS 17334 Level 0 (Package Test)

Test Parameter	International / Indian Standard	Sample Required	Turn Around Time @	Testing Charges (Rs. per sample)#	
Physical Parameters					
Impact penetration (g)	ISO 18695	4 gowns/ drapes	2 days	600	
Particle release [log10 (lint count)]	IS 15891-10		2 days	3000	
Tensile strength (dry) (N)	IS 15891-3		2 days	490	
Tensile strength (wet) (N)	IS 15891-3		2 days	490	
Bursting strength (dry) (kPa)	IS 1966		2 days	325	
Bursting strength (wet) (kPa)	IS 1966		2 days	325	
Biological Parameters					
Cleanliness–microbial (CFU/100 cm ²)	ISO 11737-1	4 gowns/ drapes (unopened pack)	10 days	3750	
Cytotoxicity ^{\$}	Direct		IS/ISO 10993-5	15 days	1600
	In Direct			15 days	2100
	Test on extract			15 days	2500
Skin irritation ^{\$}	Non- NABL		IS/ISO 10993-10	2 Months	22000
	NABL				27500
Skin Sensitization ^{\$}	Non- NABL			3 Months	77000
	NABL	99000			

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Specification – IS 17334 Level 1 (or) 2 (Package Test)

Test Parameter		International / Indian Standard	Sample Required	Turn Around Time @	Testing Charges (Rs. per sample)#
Physical Parameters					
Hydrostatic resistance (cmwc)		ISO 811	4 gowns/ drapes	2 days	550
Particle release [log10 (lint count)]		IS 15891-10		2 days	3000
Tensile strength (dry) (N)		IS 15891-3		2 days	490
Tensile strength (wet) (N)		IS 15891-3		2 days	490
Bursting strength (dry) (kPa)		IS 1966		2 days	325
Bursting strength (wet) (kPa)		IS 1966		2 days	325
Biological Parameters					
Cleanliness–microbial (CFU/100 cm ²)		ISO 11737-1	4 gowns/ drapes (unopened pack)	10 days	3750
Resistance to microbial penetration — Dry		IS 16548		3 days	13500
Resistance to microbial penetration — Wet (Applicable only for IS 17334 level 2)		IS 16549		5 days	14000
Cytotoxicity ^{\$}	Direct	IS/ISO 10993-5		15 days	1600
	In Direct			15 days	2100
	Test on extract			15 days	2500
Skin irritation ^{\$}	Non- NABL	IS/ISO 10993-10		2 Months	22000
	NABL				27500
Skin Sensitization ^{\$}	Non- NABL			3 Months	77000
	NABL				99000

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Specification – IS 17334 Level 3 surgical gown (or) surgical drape (Package Test)

Test Parameter	International / Indian Standard	Sample Required	Turn Around Time @	Testing Charges (Rs. per sample)#	
Physical Parameters					
Hydrostatic resistance (cmwc) (Applicable only for Level 3 surgical drape)	ISO 811	4 gowns/ drapes	2 days	550	
Viral Penetration Resistance Test (Applicable only for Level 3 surgical gown)	IS 16545		5 days	10000	
Synthetic Blood Penetration Resistance	IS 16546		2 days	4500	
Particle release [log10 (lint count)]	IS 15891-10		2 days	3000	
Tensile strength (dry) (N)	IS 15891-3		2 days	490	
Tensile strength (wet) (N)	IS 15891-3		2 days	490	
Bursting strength (dry) (kPa)	IS 1966		2 days	325	
Bursting strength (wet) (kPa)	IS 1966		2 days	325	
Biological Parameters					
Cleanliness–microbial (CFU/100 cm ²)	ISO 11737-1	4 gowns/ drapes (unopened pack)	10 days	3750	
Cytotoxicity [§]	Direct		IS/ISO 10993-5	15 days	1600
	In Direct			15 days	2100
	Test on extract			15 days	2500
Skin irritation [§]	Non- NABL		IS/ISO 10993-10	2 Months	22000
	NABL				27500
Skin Sensitization [§]	Non- NABL		IS/ISO 10993-10	3 Months	77000
	NABL				99000

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Test Parameter - AAMI PB 70 Level 1 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Water Resistance - Impact Penetration Test	AATCC 42	1 Sq. Meter / 1 Gown	2 days	600

Test Parameter - AAMI PB 70 Level 2 (or) 3 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Water Resistance - Impact Penetration Test	AATCC 42	1 Sq. Meter / 1 or 2 Gown*	2 days	600
Water resistance Hydrohead test	AATCC 127		2 days	550

Test Parameter - AAMI PB 70 Level 4 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Synthetic Blood Penetration Test	ASTM F1670	1 Sq. Meter /	2 days	4500
Viral penetration test	ASTM F1671	2 Gown	5 days	10000

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* If the given sample is reinforced surgical gown category, 2 surgical gowns are required.

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Test Parameter - EN 13795 (Package Test) Standard performance / Critical product area

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Water resistance Hydrohead test	EN ISO 811	5 Sq. Meters / 6 Gown (unopened pack)	2 days	550
Linting	EN ISO 9073-10		2 days	3000
Resistance to Microbial Penetration — Wet	EN ISO 22612		5 days	14000
Cleanliness microbial / Bioburden	EN ISO 11737-1		10 days	3750
Bursting Strength-Dry	EN ISO 13938-1		2 days	325
Bursting Strength-Wet	EN ISO 13938-1		2 days	325
Tensile Strength-Dry	EN 29073-3		2 days	490*
Tensile Strength-Wet	EN 29073-3		2 days	490*

* For delegate fabrics the testing charges may be increased from Rs. 490 to Rs. 840

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Test Parameter - EN 13795 (Package Test) Standard performance / Less Critical product area

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Water resistance Hydrohead test	EN ISO 811	3 Sq. Meters / 4 Gown (unopened pack)	2 days	550
Linting	EN ISO 9073-10		2 days	3000
Resistance to Microbial Penetration — Dry	EN ISO 22612		5 days	14000
Cleanliness microbial / Bioburden	EN ISO 11737-1		10 days	3750
Bursting Strength-Dry	EN ISO 13938-1		2 days	325
Tensile Strength-Dry	EN 29073-3		2 days	490*

Test Parameter - EN 13795 (Package Test) High performance / Critical product area

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Water resistance Hydrohead test	EN ISO 811	5 Sq.Meters / 6 Gown (unopened pack)	2 days	550
Linting	EN ISO 9073-10		2 days	3000
Resistance to Microbial Penetration — Wet	EN ISO 22610		5 days	14000
Cleanliness microbial / Bioburden	EN ISO 11737-1		10 days	3750
Bursting Strength-Dry	EN ISO 13938-1		2 days	325
Bursting Strength-Wet	EN ISO 13938-1		2 days	325
Tensile Strength-Dry	EN 29073-3		2 days	490*
Tensile Strength-Wet	EN 29073-3		2 days	490*

* For delegate fabrics the testing charges may be increased from Rs. 490 to Rs. 840

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Test Parameter - EN 13795 (Package Test) High performance / Less Critical product area

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Water resistance Hydrohead test	EN ISO 811	3 Sq. Meters / 4 Gown (unopened pack)	2 days	550
Linting	EN ISO 9073-10		2 days	3000
Resistance to Microbial Penetration — Dry	EN ISO 22612		3 days	13500
Cleanliness microbial / Bioburden	EN ISO 11737-1		10 days	3750
Bursting Strength-Dry	EN ISO 13938-1		2 days	325
Tensile Strength-Dry	EN 29073-3		2 days	490*

* For delegate fabrics the testing charges may be increased from Rs. 490 to Rs. 840

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Facemasks

Test Parameter – IS 16289 for class 1 and 2 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time [@]	Testing Charges (Rs. per sample)#
Differential Pressure	IS 16289 Annex C	10 facemasks	2 days	825
Bacterial Filtration Efficiency	IS 16288	5 facemasks	5 days	4550

Test Parameter – IS 16289 for class 3 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time [@]	Testing Charges (Rs. per sample)#
Differential Pressure	IS 16289 Annex C	10 facemasks	2 days	825
Splash Resistance	IS 16289 Annex D	35 facemasks	2 days	4500
Bacterial Filtration Efficiency	IS 16288	5 facemasks	5 days	4550

Note : Not part of the package but available for individual testing is the test for Particulate Filtration Efficiency at 0.3 microns under IS 16289 Annex E testing standard

Test Parameter – ASTM F2100 for all 3 classes (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time [@]	Testing Charges (Rs. per sample)#
Differential Pressure	EN 14683-Annex C	10 facemasks	2 days	825
Splash Resistance	ASTM F1862	45 facemasks	2 days	4500
Particulate Filtration Efficiency at 0.3 microns	ASTM F2299	5 facemasks	2 days	7500
Bacterial Filtration Efficiency	ASTM F2101	5 facemasks	5 days	4550
Flammability	16 CFR 10	5 facemasks	2 days	2250

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Test Parameter – EN 14683 Type I and II (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Differential Pressure	EN 14683-Annex C	10 facemasks	2 days	825
Bacterial Filtration Efficiency	EN 14683-Annex B	10 facemasks	5 days	7500
Cleanliness–microbial (CFU/g)	EN ISO 11737-1 / EN 14683-Annex D	10 facemasks (Unopened pack)	10 days	3750

Test Parameter – EN 14683 Type IIR (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Differential Pressure	EN 14683-Annex C	10 facemasks	2 days	825
Splash Resistance	ISO 22609	35 facemasks	2 days	4500
Bacterial Filtration Efficiency	EN 14683-Annex B	10 facemasks	5 days	7500
Cleanliness–microbial (CFU/g)	EN ISO 11737-1 / EN 14683-Annex D	10 facemasks (Unopened pack)	10 days	3750

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Sanitary Napkin

Disposable sanitary napkin Package Test as per IS 5405

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time [@]	Testing Charges (Rs. per sample)#
pH Value	IS 1390 (Cold Method)	1 sanitary napkin	2 days	250
Ability to withstand pressure after absorption	IS 5405 – Annex B	3 sanitary napkin	2 days	550
Bacterial and Fungal Bio burden	ISO 11737 part 1	1 sanitary napkin (Unopened pack)	10 days	3750
Isolation and Identification of normal flora <i>S. Aureus</i>	IS 5887 Part 2	2 Sanitary napkin (Unopened pack)	3 days	600
Cytotoxicity ^{\$}	ISO 10993 Part 5 (Test on Extract)	5 Sanitary napkin (Unopened pack)	15 days	2500
Skin Irritation ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	2 Months	22000
Skin Irritation (NABL) ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	2 Months	27500
Skin Sensitization ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	3 Months	77000
Skin Sensitization (NABL) ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	3 Months	99000
Sizes (Optional test)	In-house method	10 Sanitary napkin (Unopened pack)	2 days	280

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Reusable Sanitary Napkins Package Test as per IS 17514

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
General Requirements				
Colour fastness to rubbing	IS/ISO 105-X12	4 Pad	1 day	300
Colour fastness to perspiration (acidic and alkaline)	IS/ISO 105-E04	4 Pad	2 days	450
Colour fastness to washing	IS/ISO 105-C06	2 Pad	2 days	300
Dimensional stability to washing	Annex C of IS 16394	2 Pad	2 days	440
Performance Requirements				
pH Value	IS 390 (Cold Method)	1 sanitary napkin	2 days	250
Ability to withstand pressure after absorption	IS 5405 – Annex B	3 sanitary napkin	2 days	550
Bacterial and Fungal Bio burden	ISO 11737 part 1	1 sanitary napkin (Unopened pack)	10 days	3750
Isolation and Identification of normal flora S. aureus	IS 5887 Part 2	2 Sanitary napkin (Unopened pack)	3 days	600
Cytotoxicity ^{\$}	ISO 10993 Part 5 (Test on Extract)	5 Sanitary napkin (Unopened pack)	15 days	2500
Skin Irritation ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	2 Months	22000
Skin Irritation (NABL) ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	2 Months	27500
Skin Sensitization ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	3 Months	77000
Skin Sensitization (NABL) ^{\$}	ISO 10993 Part 10	20 Sanitary Napkin (Unopened pack)	3 Months	99000
Sizes (Optional test)	In-house method	10 Sanitary napkin (Unopened pack)	2 days	280

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Baby Diapers

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time [@]	Testing Charges (Rs. per sample)#
Top Sheet				
Liquid strike through time	ISO 9073-8 / WSP 70.3 / IS 15891 – 8	10 diapers	2 days	700
Wet back after liquid strike through time	WSP 80.10	6 Diapers	2 days	1000
Repeated liquid strike through time	ISO 9073-13 / WSP 70.7	10 diapers	2 days	700
Wet back after repeated liquid strike through time	ISO 9073-14 / WSP 70.8	6 Diapers	2 days	1000
Run-off	ISO 9073-11 / WSP 80.9	5 diapers	2 days	550
Overall liquid transport characteristics	AATCC 195	5 diapers	2 days	1100
Core Material				
Free swell capacity	WSP 240.3	1 diaper	2 days	550
Centrifuge retention capacity	WSP 241.3	1 diaper	2 days	1500
pH of aqueous extract	IS 1390	1 diaper	2 days	250
Back Sheet				
Water Vapour Permeability (If Breathable)	ASTM E 96	0.25 Sq. mtr	2 days	1200
Hydrohead test	ISO 811 / ISO 9073-16 / EN ISO 811	1 Sq. mtr	2 days	550

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Other Biological Tests

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Bioburden Testing	ISO 11737 - 1	1 (Unopened pack)	10 days	3750
Isolation and identification of normal flora <i>S. aureus</i>	IS 5887 Part 2	2 nos (Unopened pack)	3 days	600
Invitro cytotoxicity (Direct Method)	ISO 10993 Part 5	2 nos (Unopened pack)	15 days	1600
Invitro cytotoxicity (In Direct Method)	ISO 10993 Part 5	2 nos (Unopened pack)	15 days	2100
Skin Irritation	ISO 10993 Part 10	20 nos (Unopened pack)	2 months	22000
Skin Irritation (NABL)	ISO 10993 Part 10	20 nos (Unopened pack)	2 months	27500
Skin Sensitization	ISO 10993 Part 10	20 nos (Unopened pack)	3 months	77000
Skin Sensitization (NABL)	ISO 10993 Part 10	20 nos (Unopened pack)	3 months	99000
*Antibacterial Evaluation (Qualitative)	AATCC 147	1 nos / 0.5 Sq.mtr	3 days	1300
*Antibacterial Evaluation (Quantitative)	AATCC 100 & ASTM E2149	5 nos / 1.0 Sq.mtr	5 days	2000
Antibacterial Evaluation	JIS L1902	5 nos / 1.0 Sq.mtr	5 days	2850
**Biodegradability testing	AATCC 30 Part 1	20 nos	16 weeks	3300

* *If the samples is coated with antimicrobial compound*

** *If the sample is claimed as degradable.*

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Other Physical Tests

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time [@]	Testing Charges (Rs. per sample)#
Water Resistance - Hydrohead Test	AATCC 127	0.5 Sq.mtr	2 days	550
	ISO 9073-16			
	ISO 811			
	EN ISO 811			
Water Proofness	IS 7016-7	1 Sq.mtr	2 days	1100
	EN 13726-3			
Water Resistance - Impact Penetration Test	AATCC 42	1 Sq.mtr	2 days	600
	WSP 80.3			
	ISO 9073-17			
Water Repellency - Spray Test	AATCC 22	0.5 Sq.mtr	2 days	400
Blood Repellency - Spray Test	In House Method	0.5 Sq.mtr	2 days	550
Blood Resistance - Impact Penetration Test	In House Method	1 Sq.mtr	2 days	700
Synthetic Blood Penetration Test	ASTM F 1670/F 1670M	0.25 Sq.mtr fabric / 1 gown	2 days	4500
	ISO 16603			
	IS 16546			
Cleanliness Particulate Matter	ISO 9073-10	1 Sq.mtr / 1 gown	2 days	3000
	EN ISO 9073-10			
Crump Flex Test	IS 7016-4	0.5 Sq.mtr	2 days	1050
	ISO 7854 Method C			
Total Lint Count	ISO 9073-10	1 Sq.mtr / 1 gown	2 days	3000
	WSP 160.1			
	EN ISO 9073-10			
Liquid Strike Through Time	ISO 9073-8	0.5 Sq.mtr / 15 diapers	2 days	700
	WSP 70.3			
	IS 15891-8			
Repeated Liquid Strike Through Time	ISO 9073-13	0.5 Sq.mtr / 10 diapers	2 days	700
	WSP 70.7			
Wetback	WSP 80.10	0.5 Sq.mtr / 6 diapers	2 days	1000
Wetback after Repeated Liquid Strike Through Time	ISO 9073-14	0.5 Sq.mtr / 6 diapers	2 days	1000
	WSP 70.8			



Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Run-Off	ISO 9073-11	0.5 Sq.mtr / 10 diapers	2 days	550
	WSP 80.9			
Free Swell Absorptive Capacity	WSP 240.3	5 Gram of SAP / 1 Diaper	2 days	550
	EN 13726-1	10 g of Wound Dressing		
Centrifuge Retention Capacity	WSP 241.3	5 Gram of SAP / 1 Diaper	2 days	1500
Moisture Management Test	AATCC 195	0.5 Sq.mtr	2 days	1100
Absorbency Under Pressure	IS 5405	2 Napkins	2 days	550
Disposability	IS 5405	2 Napkins	2 days	550
Thickness	IS 5405	10 Napkins	2 days	140
Dimensions (Length & Width)	IS 5405			140
Alcohol Repellency	WSP 80.8	0.5 Sq.mtr	2 days	1500
Total Absorbent Capacity	In House Method	3 Napkins	2 days	1500
Pore Size Analysis	In Capillary Flow Porometry	0.25 Sq.mtr	2 days	1100
	ASTM D 6767			
Flushability	WSP 511.2	10 wipes / 0.5 Sq.mtr	2 days	2000
Resistance to Pilling	ASTM D 4970	1 Sq.mtr	2 days	550
	ISO 12945-2			
Resistance to Abrasion	ASTM D4966	0.5 Sq.mtr	3 days	550 upto 7000rubs (add Rs.550 for each additional 7000 rubs)
	ISO 12947-2			
	ISO 12947-3			
	ISO 12947-4			
Vertical Wicking	ISO 9073-6	1 Sq.mtr	2 days	500
	WSP 10.1			
	IS 15891-6			
Liquid Absorption Time	ISO 9073-6	1 Sq.mtr	2 days	220
	WSP 10.1			
	IS 15891-6			



Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time @	Testing Charges (Rs. per sample)#
Sinking Time	IS 14944 Part 6.11	25 gms	2 days	220
Water Holding Capacity	IS 14944 Part 6.11.3	25 gms	2 days	400
Liquid Absorptive Capacity	ISO 9073-6	1 Sq.mtr	2 days	400
	WSP 10.1			
	IS 15891-6			
Blood holding capacity	In House Method	1 Sq.mtr	2 days	550
Mass Per Unit Area	ISO 9073-1	1 Sq.mtr	2 days	180
	WSP 130.1			
	IS 15891-1			
Weight Per Unit Area	IS 14944 Part 6.4	0.5 Sq.mtr	2 days	180
Splash Resistance	ASTM F1862/ F1862M	35 masks	2 days	4500
	IS 16289 Annexure D			
	ISO 22609			
Particulate Filtration Efficiency Test	ASTM F2299/F2299M	10 masks	2 days	7500
	IS 16289 Annexure E			
Differential Pressure	IS 16289 Annexure C	10 masks	2 days	550
	EN 14683 Annexure C			
Water Vapour Permeability (Cup Method)	ASTM E96 / E96 M	0.25 Sq.mtr	2 days	1200
Moisture Vapour Transmission	EN 13726-2	0.25 Sq.mtr	2 days	1500
Horizontal Wicking	AATCC 198	0.5 Sq.mtr	2 days	500
Surface Tension	In House Method	25 ml	2 days	1100
Contact Angle	In House Method	0.25 Sq.mtr	2 days	1100
Flammability	IS 15061 Annex A	1 Sq.mtr	2 days	1550
Fabric Touch Test	In House Method	2 Sq.mtr	2 days	870

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