

Specification for IS 17630 - Disposable Bed Sheet and Pillow Cover

For same raw materials used in the production of bed sheets and pillow covers

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time
General Requirements (for both bedsheet and pillow cover)			
Workmanship and finish	IS 17630 Clause 5.0	One pack (including packing cover)	2 days
Packaging and Sterilization	IS 17630 Clause 8.0		
Marking	IS 17630 Clause 9.0		
Colour fastness and Dimensional Stability Requirement of Fabric-additional test for Reusable Bed Sheet			
Colour fastness to rubbing	IS/ISO 105-X12	1 sq.mtr	1 day
Colour fastness to perspiration (acidic and alkaline)	IS/ISO 105-E04		2 days
Colour fastness to washing	IS/ISO 105-C06		2 days
Colour fastness to light	IS/ISO 105-B02		5 days
Dimensional stability to washing	IS 15370/ISO 6330	1 sq.mtr	2 days
Pilling resistance	IS 10971 (Part 2)	1 sq.mtr	2 days
Scouring loss	IS 1383	0.5 sq.mtr	
Colour fastness and Dimensional Stability Requirement of Fabric - additional test for Reusable Pillow Cover			
Colour fastness to rubbing	IS/ISO 105-X12	1 sq.mtr	1 day
Colour fastness to perspiration (acidic and alkaline)	IS/ISO 105-E04	1 sq.mtr	2 days
Colour fastness to washing	IS/ISO 105-C06	1 sq.mtr	2 days
Colour fastness to light	IS/ISO 105-B02	1 sq.mtr	5 days
Dimensional stability to washing	IS 15370/ISO 6330	1 sq.mtr	2 days
Pilling resistance	IS 10971 (Part 2)	1 sq.mtr	2 days
Scouring loss	IS 1383	0.5 sq.mtr	
Performance Requirements for Bedsheet			
Tensile strength (dry and wet)	Nonwoven: IS 15891 (Part 3) Woven: IS 1969 (Part 1)	1 sq.mtr	2 days
Bursting strength (dry and wet)	IS 1966 (Part 1)	1 sq.mtr	

pH	IS 1390	0.5 sq.mtr	2 days
Water soluble substance	IS 14944	0.5 sq.mtr	2 days
Cleanliness–microbial (CFU/100 cm ²)	ISO 11737-1	1 sq.mtr	7 days
Particle release [log10 (lint count)](only for Nonwoven)	IS 15891 (Part 10)	1 sq.mtr	2 days
Moisture vapour transmission rate (Max) (optional)	IS 17376	1 sq.mtr	2 days
Performance requirements for Pillow cover			
Tensile strength (dry and wet)	Nonwoven: IS 15891 (Part 3) Woven: IS 1969 (Part 1)	1 sq.mtr	2 days
Seam strength (dry and wet)	Nonwoven: IS 15891 (Part 18), Woven: IS/ISO 13935 (Part 1)	1 sq.mtr	
Bursting strength (dry and wet)	IS 1966 (Part 1)	1 sq.mtr	
pH	IS 1390	0.5 sq.mtr	2 days
Water soluble substance	IS 14944	0.5 sq.mtr	2 days
Cleanliness–microbial (CFU/100 cm ²)	ISO 11737-1	1 sq.mtr	7 days
Particle release [log10 (lint count)] (only for Nonwoven)	IS 15891 (Part 10)	1 sq.mtr	2 days
Moisture vapour transmission rate (Max) (optional)	IS 17376	1 sq.mtr	2 days
Biocompatibility test for both bedsheet and pillow cover (Optional)			
Cytotoxicity	ISO 10993 Part 5 (Test on Extract)	0.5 sq.mtr	10 days
Skin Irritation	ISO 10993 Part 23	1 sq.mtr	2 Months
Skin Sensitization	ISO 10993 Part 10	1 sq.mtr	3 Months

For Different raw materials used in the production of bed sheets and pillow covers

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time
General Requirements (for both bedsheet and pillow cover)			
Workmanship and Finish	IS 17630 Clause 5.0	One pack (including packing cover)	2 days
Packaging and Sterilization	IS 17630 Clause 8.0		
Marking	IS 17630 Clause 9.0		
Colour fastness and Dimensional Stability Requirement of Fabric-additional test for Reusable Bed Sheet			
Colour fastness to rubbing	IS/ISO 105-X12	1 sq.mtr	1 day
Colour fastness to perspiration (acidic and	IS/ISO 105-E04		2 days
Colour fastness to washing	IS/ISO 105-C06		2 days
Colour fastness to light	IS/ISO 105-B02		5 days
Dimensional stability to washing	IS 15370/ISO 6330	1 sq.mtr	2 days
Pilling resistance	IS 10971 (Part 2)	1 sq.mtr	2 days
Scouring loss	IS 1383	0.5 sq.mtr	
Colour fastness and Dimensional Stability Requirement of Fabric - additional test for Reusable Pillow Cover			
Colour fastness to rubbing	IS/ISO 105-X12	1 sq.mtr	1 day
Colour fastness to perspiration (acidic and	IS/ISO 105-E04	1 sq.mtr	2 days
Colour fastness to washing	IS/ISO 105-C06	1 sq.mtr	2 days
Colour fastness to light	IS/ISO 105-B02	1 sq.mtr	5 days
Dimensional stability to washing	IS 15370/ISO 6330	1 sq.mtr	2 days
Pilling resistance	IS 10971 (Part 2)	1 sq.mtr	2 days
Scouring loss	IS 1383	0.5 sq.mtr	
Performance Requirements for Bedsheet			
Tensile strength (dry and wet)	Nonwoven: IS 15891 (Part 3) Woven: IS 1969 (Part 1)	1 sq.mtr	2 days
Bursting strength (dry and	IS 1966 (Part 1)	1 sq.mtr	
pH	IS 1390	0.5 sq.mtr	2 days
Water soluble substance	IS 14944	0.5 sq.mtr	2 days
Cleanliness-microbial (CFU/100 cm ²)	ISO 11737-1	1 sq.mtr	7 days

Particle release [log10 (lint count)](only for	IS 15891 (Part 10)	1 sq.mtr	2 days
Moisture vapour transmission rate (Max) (optional)	IS 17376	1 sq.mtr	2 days
Performance requirements for Pillow cover			
Tensile strength (dry and wet)	Nonwoven: IS 15891 (Part 3) Woven: IS 1969 (Part 1)	1 sq.mtr	2 days
Seam strength (dry and wet)	Nonwoven: IS 15891 (Part 18), Woven: IS/ISO 13935 (Part 1)	1 sq.mtr	
Bursting strength (dry and wet)	IS 1966 (Part 1)	1 sq.mtr	
pH	IS 1390	0.5 sq.mtr	2 days
Water soluble substance	IS 14944	0.5 sq.mtr	2 days
Cleanliness–microbial (CFU/100 cm ²)	ISO 11737-1	1 sq.mtr	7 days
Particle release [log10 (lint count)](only for	IS 15891 (Part 10)	1 sq.mtr	2 days
Moisture vapour transmission rate (Max) (optional)	IS 17376	1 sq.mtr	
Biocompatibility test for bedsheet (Optional)			
Cytotoxicity	ISO 10993 Part 5 (Test on Extract)	0.5 sq.mtr	10 days
Skin Irritation	ISO 10993 Part 23	1 sq.mtr	2 Months
Skin Sensitization	ISO 10993 Part 10	1 sq.mtr	3 Months
Biocompatibility test for Pillow cover (Optional)			
Cytotoxicity	ISO 10993 Part 5 (Test on Extract)	0.5 sq.mtr	10 days
Skin Irritation	ISO 10993 Part 23	1 sq.mtr	2 Months
Skin Sensitization	ISO 10993 Part 10	1 sq.mtr	3 Months