LIST OF TABLES

Table No.	Title	Page No.
2.1	Different categories of UV-index value	25
2.2	Effect of UV rays on different types of skin	29
2.3	Summary of Factors Significantly Affecting the UPF of Apparel Textiles	36
2.4	General recommendations about UV protective clothing for patients with photosensitivity	37
2.5	Composition of the fatty substances secreted by the human skin	42
2.6	Average composition of road dust	43
2.7	Different methods used for tackling soiling problems in textiles	53
3.1	Fabric code given to the fabrics used in the study	99
3.2	Classification of UPF and percent UVR Transmission as per AS/NZ 4399:1996 classification of sunprotective clothing	118
4.1	Construction characteristics of experimental fabrics i.e. fiber content, thread count, yarn number, thickness and weight per unit area	126
4.2	Fabric Parameters and percent UVR transmission for fabrics under study	127
4.3	Values of Correlation 'r' of fabric parameters on percent UVR transmission	133
4.4	Percent UVR transmission of untreated and UV absorber treated plain weaves fabrics	135
4.5	Percent UVR transmission of untreated and UV absorber treated twill weaves fabrics	136
4.6	Colour values of Acacia Catechu (Katha) coloured fabrics	139
4.7	Percent UVR transmission of untreated and coloured plain weave fabrics	141

Table No.	Title	Page No.
4.8	Percent UVR transmission of untreated and coloured twill weave fabrics	143
4.9	K/S values of dyed fabrics	144
4.10	Percent UVR transmission of cotton fabrics after 3cylces of laundering	146
4.11	Percent UVR transmission of polyester fabric after 3cycles of laundering	147
4.12	Percent UVR transmission of polyester/cotton fabric after 3 cycles of laundering	148
4.13	K/S values of dyed fabrics before and after laundry (3 cycles)	149
4.14	Effect of perspiration on percent UVR transmission of untreated and treated cotton plain weave fabrics	151
4.15	Effect of perspiration on percent UVR transmission of untreated and treated polyester plain weave fabrics	152
4.16	Effect of perspiration on percent UVR transmission of untreated and treated polyester/cotton plain weave fabrics	153
4.17	Whiteness index of untreated and treated fabric samples	155
4.18	Percent soil uptake with artificial soil on untreated and treated fabric sample	156
4.19	Percent soil-release of untreated and treated fabrics after 3 wash cycles	159
4.20	Percent soil-redeposition during laundering on untreated and treated fabrics	163
4.21	Four selected combinations of UV absorber and soil-release finish	165
4.22	Percent UVR transmission of untreated and treated polyester/cotton blend plain weave fabric with finishes in combination	166
4.23	Percent UVR transmission of polyester/cotton fabric after 3 cycles of laundering	167

Table No.	Title	Page No.
4.24	Effect of perspiration on percent UVR transmission of untreated and treated fabric with finishes in combination	169
4.25	Whiteness index of polyester/cotton blend fabrics with various treatments	171
4.26	Percent soiling with artificial soil on untreated and treated fabric with finishes in combination	172
4.27	Percent soil-release after laundering (3cylces) of untreated and treated fabrics with finishes in combination	174
4.28	Percent soil-redeposition during laundering of on untreated and treated fabric with finishes in combination	175
4.29	Thickness of the untreated and treated fabrics with finishes in combination	180
4.30	Weight per unit area of the untreated and treated fabrics with finishes in combination	181
4.31	Air permeability of the untreated and treated fabrics with finishes in combination	182
4:32	Warp bending length of untreated and treated fabrics with finishes in combination on plain and twill weave	183
4.33	Weft bending length of untreated and treated fabrics with finishes in combination on plain and twill weave	184
4.34	Percent crease recovery angle of untreated and treated fabrics with finishes in combination	186
4.35	Warp-wise elongation (in cm) and Load (in Kg) of untreated and treated fabrics with finishes in combination	187
4.36	West-wise elongation (in cm) and Load (in Kg) of untreated and treated fabrics with finishes in combination	188
4.37	Market price of individual finishes and auxiliaries	190
4.38	Theoretical cost of the four combinations of finishes	191