

PHYSICAL PROPERTIES

TEST	LIMITS	TESTING METHOD/STANDARD	TEST SPECIMEN
Slide fasteners: Puller attachment test (1) Closed-end test (2) Top-stop test (3) Reciprocating test (5) Lateral strength test (6) Slider locking test (8)	Normal fitted footwear min. 250N Tight fitted footwear min. 300N min. 135N min. 160N min. 135N min. 160N min. 1000 cycles min. 2000 cycles min. 400N min. 500N min. 40N min. 60N	BS 3084 NB! Test number 5 shall be run until zipper failure but no more than 5000 cycles. Point of and reason for failure shall be indicated in test report.	Material
Colour fastness to rubbing (Upper materials and lining) Grey Scale Rating	All materials Dry min 3, 10 rubs Wet min 3, 10 rubs	ISO 105-X12 SATRA TM167	Material (preferred) or whole shoe
Surface abrasion coated upper materials (Taber abrasion) H-18 wheels, load 1000g No worse than moderate wear after number of cycles shown	Excellent abrasion resistance - 3000 cycles Good abrasion resistance - 2000 cycles Moderate abrasion resistance - 1000 cycles	SS-EN ISO 5470-1 SATRA TM163	Material
Sole abrasion (mm ³)	EVA Density: min 0.30 <700 Leather Density: <450 PU Density: min 0.50 <300 Resin rubber Density: max 1.50 <350 PVC Density: max 1.33 <250 Rubber (vul.) Density: max 1.25 <350 TPR 50-60 IRHD Density: 0.9-1.02 <300 TPR 61-70 IRHD Density: 0.9-1.02 <350 TPR 71-95 IRHD Density: 0.98-1.06 <400	ISO 4649:2002 SATRA TM174	Material, whole shoe or sole unit
Flexing sole (Bata belt)	No cracking after 50 000 cycles	SATRA TM133	Whole shoe or whole sole unit
Flexing upper (Vamp flex) No worse than slight cracking after number of flexes shown	500,000 flexes dry 50,000 flexes wet (leathers only) 50,000 flexes -5C (coated materials only)	SATRA TM25	Material
Tear strength	Leather Min. 100N Textiles, PU-material Min. 45N	Baumann method SATRA TM 162/EN ISO 20344 (clause 6.3) Trousers leg method SATRA TM30/EN ISO 20344 (clause 6.3)	Material Material
Bonding strength (toe joint area)	Men's/children's everyday footwear 4,0N/mm Men's/children's fashion footwear and women's everyday footwear 3,0N/mm	ISO 17708:2003 SATRA TM411	Whole shoe
Electrical components	The shoes may not contain any electrical components.	N/A	N/A

NB! The supplier must check with the laboratory in advance how much testing material/number of test specimens that are required for each test.