

Raising the standard



wipe clean



breathable



waterproof



scuff resistant

Permair leather is an all round high performance product that exceeds conventional leather standards.

Permair leather standard is highly durable, has excellent cold crack and flex resistance. It is also breathable, waterproof and has a wipe clean finish which requires no polishing.

Permair leather standard is extensively used for

- **Children's footwear** - high abrasion resistance and non polish
- **Men's Formal footwear** - high comfort and easy care
- **Bags and belts** - high abrasion and flex resistance
- **Golf and other sports shoes** - waterproofness and breathability for wearer comfort

Permair leather standard

permair[®] leather

Comparative test data

Permair leather standard v Grain and Cast Coated Leathers

Property	Test Method	Target Performance	Standard Permair Leather	Cast Coated Leather	Corrected Grain Leather
Thickness (mm)	Porvair STM001		1.87	1.68	1.6-1.8
Tear Strength (Kg)	Porvair STM150	L= X=	15.9 12.7	10.0 11.1	15
Tensile Strength (Kg/cm)	Porvair STM056	L= X=	36.5 23.7	37.1 44.1	15
Elongation At Break (%)	Porvair STM056	L= X=	44 46	38 47	35
Water Resistance	SATRA TM34 Maeser	>/= 100,000 cycles Waterproof	> 500,000 cycles	> 500,000 cycles	Leakage after 1,000 cycles
Hydrolysis Resistance	SATRA TM344/25	No worse than slight cracking 1 million flexes at 20°C before and after	5 million flexes very slight cracking	500,000 flexes severe cracking +delam	Not relevant
SATRA Vamp Flex	SATRA TM25	No worse than slight cracking Dry-1million Wet-100,000 -5°C-100,000 flexes	Dry/Wet 5 million -5°C 50,000 No cracking	Dry 3 million Wet 500,000 -5°C 400,000 cracking	Dry 500,000 Wet 100,000 -5°C 100,000 slight cracking
Martindale Abrasion	SATRA TM31 (A)	After 51,200flex >4 = Good >5 = Excellent	4/5	4/5	4/5
SATRA Chisel Scuff	SATRA TM140	50 = Moderate 200 = Good 400 = Excellent	50	50	20
Qualitative Peel	SATRA TM148	No peeling from Wet/Dry Leather	No peeling	Coating peels	Not relevant