

**Real usability.**

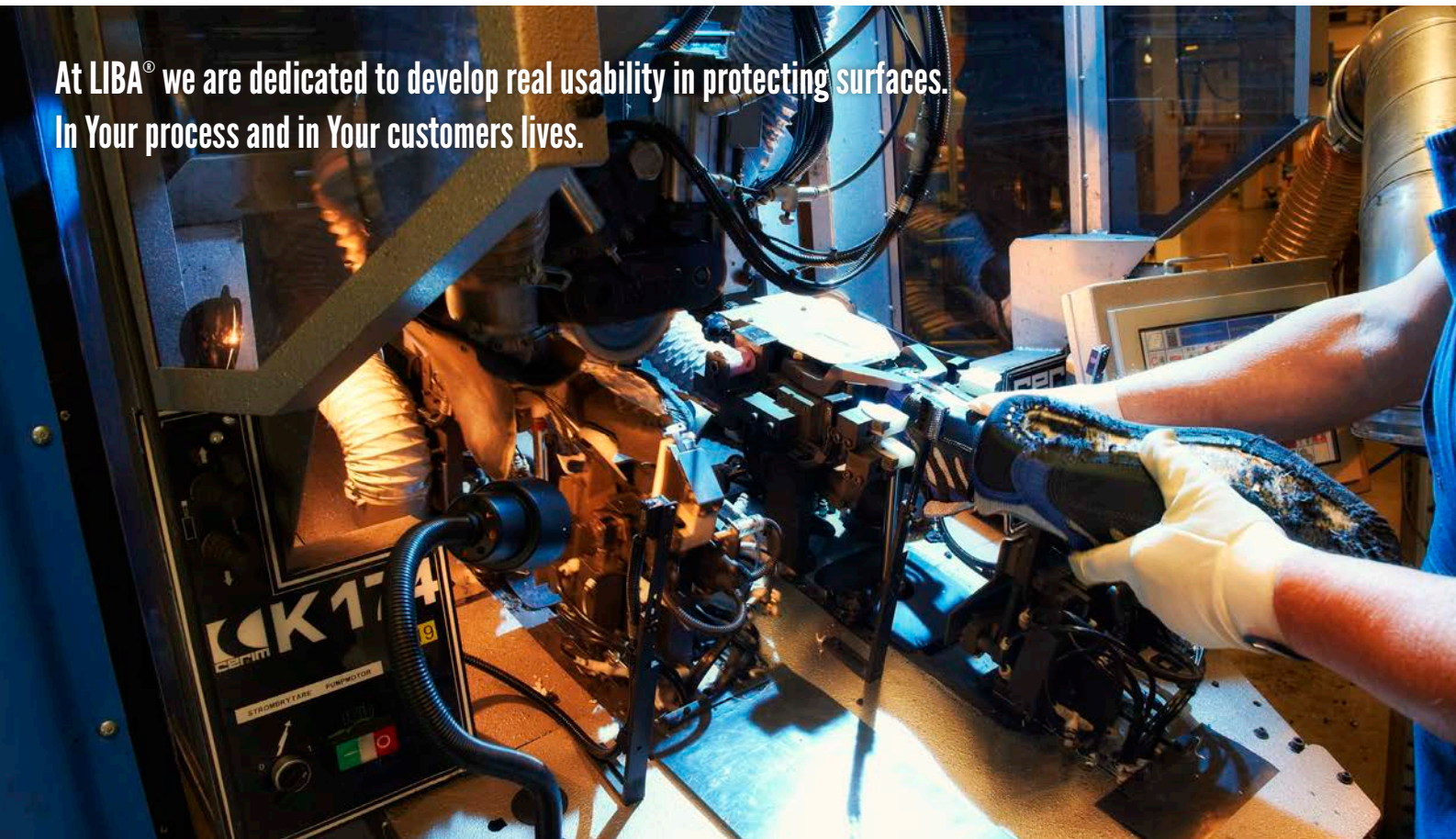


**LIBA<sup>®</sup>**

Art. No: Liba® smart  
 Formulation: Based on TPU  
 Width: 440 mm (+/- 5%), in rolls  
 Thickness range: 0,8 – 2,0mm (+/- 0,1mm)  
 Surface design: Standard or customized  
 Service temperature range: - 50 to +100 C (unstressed material)  
 Colors: Black and White, other colors on request  
 Weather ability/hydrolysis: Excellent  
 Ozone/UV-resistance: Excellent  
 Chemical resistance: As TPU  
 Recycling: 100 % recyclable  
 Shrinkage: 0,8 – 2,0 %, depending on temp. and design

Properties	Standard	Test unit	Test value	Rec. Value
Hardness	ASTM D 2240	Shore A	70+/-5	.
Specific gravity	ASTM D 792	G/cm <sup>3</sup>	0,65-0,70	.
Abraison resistance	EN ISO 20345:5.5.2 SATRA TM 95:1996 SATRA TM 31:2003	Mm3 Scale 1-3+A,B Martindale	27-32 1A Excellent Dry&Wet 51,200 revs very slight wear	Max 200 2B Good Dry: 51,200 Wet: 12,800 moderate wear
Tensile strength	SATRA TM 137:1995	Mpa	Along 13,0 Across 9,6	8 8
Elongation	SATRA TM 137:1995	%	Along 427 Across 412	400 400
Breaking strength	SATRA TM 29:1992	N/mm	Along 20,3 Across 15,1	10 10
Breaking extension	SATRA TM 29:1992	%	Along 605 Across 469	15 7
Tear strength	SATRA TM 30:1995	N	Along 78,6 Across 86,1	70 70
Vamp flex Hydrolysis	SATRA TM 344:1995 (SATRA TM 25:1992) Hydrolysis ageing =14 days at 70C 100% relative humidty	1 000 000 flexes, as received 1 000 000 flexes, after hydrolysis	No cracking No cracking	No more than slight cracking No more than slight cracking

At LIBA® we are dedicated to develop real usability in protecting surfaces.  
In Your process and in Your customers lives.



# S A M P L E S

# This is LIBA®

LIBA® is a TPU-based material that outperforms rubber in most common tests. A quality product with well known brands all over Europe as customers. It is used in safety footwear, hiking boots, special gloves, bags etc.

Since it is a light weight product and really flexible, there is a wide range of areas where this material can be used.

LIBA® works very well in all weather conditions, it is UV- and ozone resistant and 100% recyclable.

LIBA® is a registered trademark by AB H Brunner.



For more information  
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LIBA®