

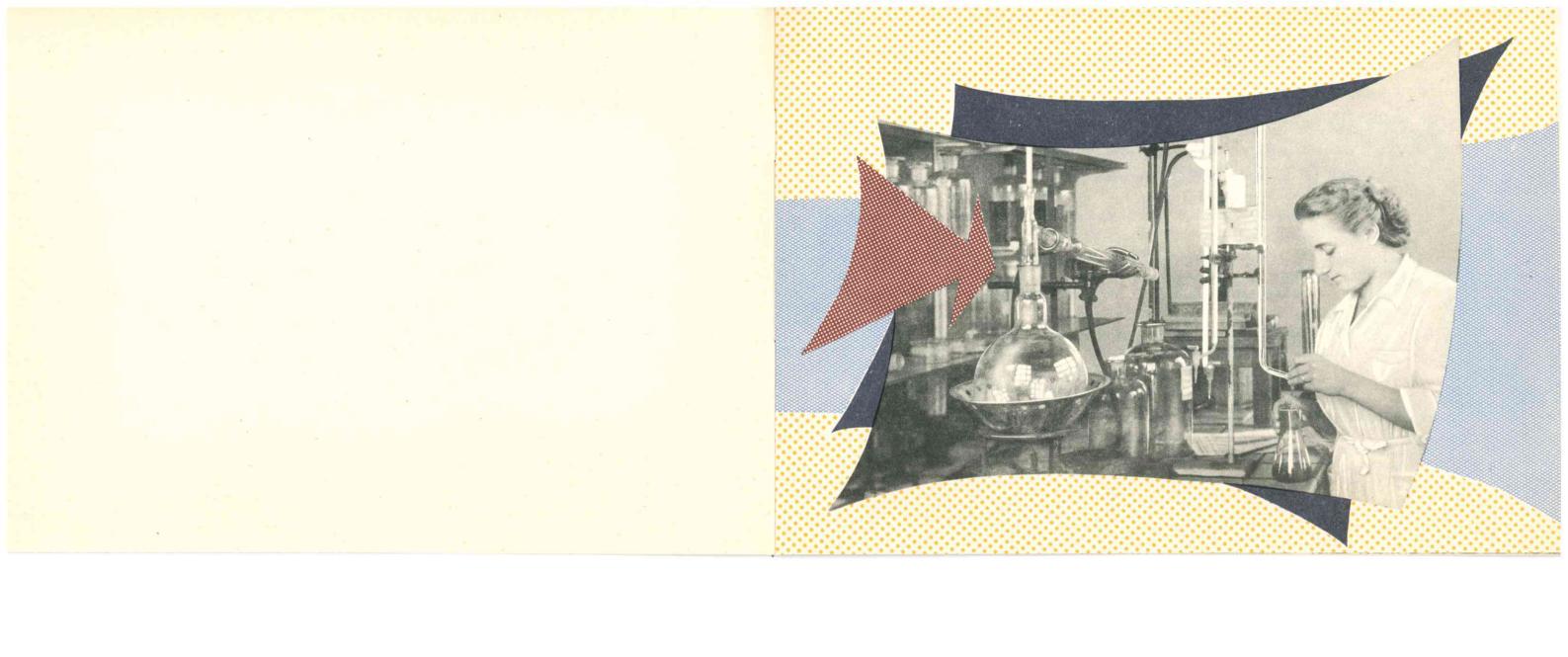


BRISTLES AND WIRES

During the past two decades the PC-U bristles, wires, and ribbons manufactured by us could replace the natural materials to a steadily increasing degree both in the industry and in the household. This is due to their excellent properties.

The PC-U bristles, wires, and ribbons are made from polyvinylchloride (PVC) powder, which is a white, odourless, tasteless, physiologically harmless, and non inflammable powder. It only undergoes physical but no chemical changes when being treated thermoplastically. The PC-U bristles, wires, and ribbons are therefore odourless etc., but before all as non-poisonous as the powder itself.

Due to the raw material used and to the special method of manufacture the PC-U bristles, wires, and ribbons have certain properties which must be known both to those who use this material and to the consumer in order not to omit any possibility for using them, and for avoiding any inexpedient treatment of the PC-U products.



CHEMICAL PROPERTIES

The PC-U bristles, wires and ribbons are extremely resistant to chemicals. Their high resistance to lyes and acids is not attained by any other natural or synthetic product.

PC-U bristles, wires, and ribbons are resistant to:

natural and purified water;

inorganic and organic acids of all kinds and concentrations except concentrated nitric acid:

all kinds of oxidation and reduction (even chromic acid, hydrogen peroxide, ozone);

all kinds of salt solutions (e.g. sea water, artificial silk spinning solutions, chloride of zinc lye);

aliphatic hydrocarbons (benzine and lubricating oil);

all kinds of vegetable oils and fats;

aqueous phenole, alcohol, and glycerine;

carbon tetrachloride (up to 20°C), formaldehyde, bacteria.

They are not resistant to:

conc. nitric acid, aromatous combinations (benzol, xylene etc.), sulphide of carbon, chloride of hydrocarbons (chloroform etc.), ethers, esters, ketones (acetone).

PHYSICAL PROPERTIES

With regard to the physical properties of the PC-U bristles, wires and ribbons we may state the following data:

specific gravity
stiffness, dry
stiffness, wet
resistance to heat:
resistance to cold:

about 1.38
about 1.5 cm × g
about 1.5 cm × g
up to about 60° C
down to about —20° C

PC-U bristles and wires are not suitable for articles exposed to impacts or frequent bending.

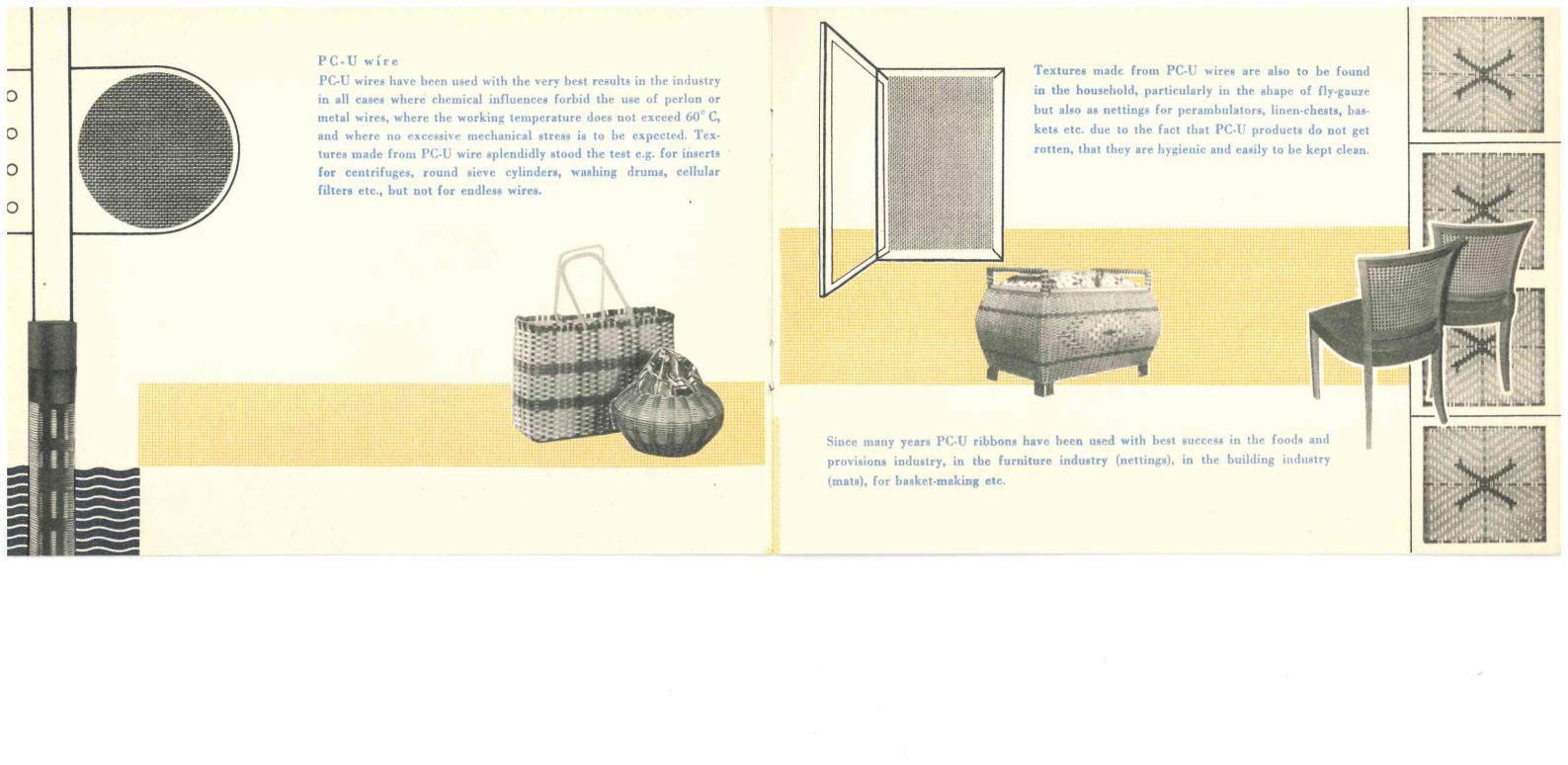
We must also point out that PC-U bristles, wires, and ribbons tend to electrostatic charges so that the use of the same cannot be recommended in workshops and factories exposed to explosion hazards.

STRENGTH AND ELONGATION

At present the PG-U bristles, wires, and ribbons are supplied with the following strength and elongation values which depend on the diameter:

PCU	bristles	8-12 kg/sq.mm	35-100%	elongation
PCU	wire	6—11 kg/sq.mm	35-100%	elongation
PCU	ribbons	6—10 kg/sq.mm	35 - 70%	elongation





which we manufacture at present

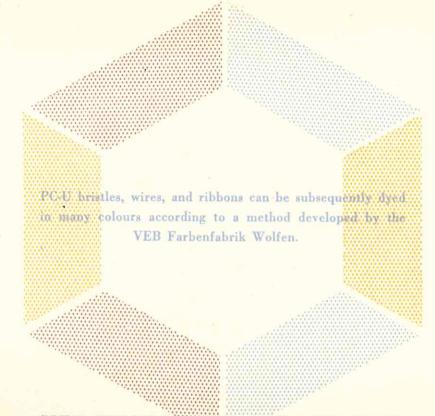
Qualities

Bristles.	undyed	0.25	mm = about	0.08	gr./m
		0.30	mm = about	0.10	gr./m
		0.35	mm = about	0.12	gr./m
		0.40	mm = about	0.17	gr./m
		0.50	mm = about	0.35	gr./m
	red	1.0	mm = about	1.2	gr./m
	no real	0.20			1: 1 1 1 1 1 1

PC-U bristles 0.30 mm are also supplied undulated.

			Breaking load per kg appr.	Running length per kg appr.
Wire, undyed	0.30	mm		10 000 m
	0.40	mm	1.3	5 300 m
	0.80	mm	4.0	1500 m
and red dyed	1.2	mm	9.0	970 m
99 99 99	1.5	mm	12.0	470 m
93 do 33	2.0	mm	23.0	250 m
82 29 69	3.0	mm	50.0	120 m
Ribbon, undved	5.5×0.8	mm	29.0	200 m

Tolerance in diameter $+\,10\%$ as usual. Supplied in rings of 2 kg



VEB FILMFABRIK AGFA WOLFEN

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