

PET

Polyethylene-terephthalate bristles for brushes and brooms

Polyethylene-terephthalate bristles are more and more widely used materials in brush and broom industry due to their big heat resistance and excellent mechanical characteristics. PET regranulate – as end-product of waste processing – is a recycled raw material which can replace PVC since PET is more environment-friendly.

Physical and chemical characteristics

Density: 1,37–1,40 g/cm³
 Melting point: 245-260°C
 Heat resistance: 70°C
 Physical state: semicrystalline

Chemical resistance (on 20°C)

Polyethylene-terephthalate resists alkalis and solid acids slightly but to diluted acids, alcohol and organic solvents well.

Fields of application

Household and body-care brushes, brooms, industrial and technical brushes.

Quality alternatives

Not oiled: for manual use

Oiled: for process with high-speed machines

Straight (level)



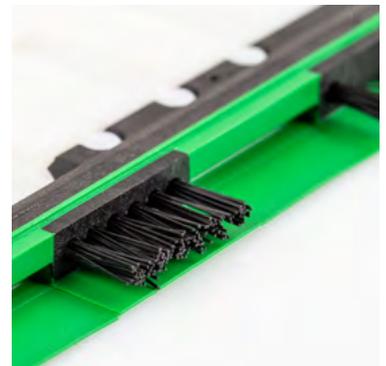
Crimped: we can offer ten types of crimping marked with numbers 1-9 and letter "A".

Crimp no.	Length of crimp (mm)	Amplitude (mm)
1	12-14	0,8-1,0
2	10-12	1,0-1,2
3	43322	1,2-1,5
4	1,4-1,6	0,5-0,8
5	5-5,5	1,2-1,5
6	6-6,5	0,8-1,0
7	3-3,5	0,8-1,0
8	22-24	0,5-0,8
9	7-7,5	0,8-1,0
"A"	17-18	1,5-1,8

PET fibre diameter	Usable types of crimping
0,16-0,60 mm	all the types
above 0,60 mm	-

You can find data of crimping types here.

The amplitude of the crimp can be changed depending on customer demand.



Non flaggable

Flaggable: if flagging is needed after making brush

- min. diameter: 0.23 mm



Flagged:

- min. diameter: 0.23 mm

- length: 120-1000 mm

- depth of flagging: 8-13 mm

Profile types



Round / Oval



Y profile



Triangular

Colours

Our standard colours are given in our colour sample collection. In case of significant quantity is demanded, also different colours can be manufactured.

Size range

Round and oval profil types:

- Fine brush bristles: 0,16-0,29 mm
- Brush bristles: 0,30-0,59 mm
- Broom threads: 0,60-3,00 mm

Stabilisation

Stabilized during production. Stabilization not needed separately.

Packing

Fibre diameter below 0.50 mm: PE foil tube with bundle diameter 55-57 mm or 58-60 mm in accordance with demand

Fibre diameter above 0.50 mm: wrapped with PE foil with bundle diameter 60 mm

Transportation

In cartons, fixed to pallet; as required.



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