

FLEXAN Series 2

Extruded thermoplastic textile for elastic and moderate-stiffness toe puffs

Product	Thickness (*)	Tolerance
FLEXAN 12/00	0,33 mm	± 0,05 mm
FLEXAN 32/00	0,53 mm	± 0,05 mm
FLEXAN 42/00	0,63 mm	± 0,05 mm
FLEXAN 52/00	0,73 mm	± 0,05 mm
FLEXAN 62/00	0,83 mm	± 0,05 mm
FLEXAN 72/00	0,93 mm	± 0,05 mm
FLEXAN 82/00	1,03 mm	± 0,05 mm

(*) the value of thickness doesn't include the extra hot-melt adhesive coating. The increase of thickness for every side-coating is between 0,05 and 0,08 mm



Technical Features

FLEXAN series 2 are composite materials based on thermoplastic polymers manufactured through a special coextrusion process (multi-layer extrusion).

FLEXAN series 2 include a bonding with non-woven polyester fabric on both sides of layer coextruded.

FLEXAN series 2 is indicated for the realization of toe-puffs characterized by remarkable properties of flexibility and moderate stiffness.

The particular polymeric nature of which is composed, besides giving excellent characteristics of stability over time, allows to produce footwear of high-quality finish with excellent properties of dimensional stability and that does not deteriorate over time under different weather conditions.

The standard **FLEXAN series 2** for toe puffs includes a one-side EVA based hot melt coating (OP) or polyurethane based hot-melt powder coating (ON) or always polyurethane based hot melt powder coating (OL) with low hot activation temperature.

Moreover **FLEXAN series 2** is available with one side **polyurethane base film coating "OK"**.

This version improves and increases the resilience and elasticity of the article.

On request the **FLEXAN series 2** is also available with double-side hot melt coating EVA based (PP) or polyurethane based (NN). By choosing the suitable high thickness product it can be used as counter.

The availability in different thicknesses make it suitable for different types of footwear.

FLEXAN series 2 is available on request with the two black polyester fabrics.

The information contained herein is based on our technical knowledge and experience. Since it is the user's responsibility to determine the suitability of the product for his own use, he should thoroughly test any application.



Mode of use

The shape of toe puffs can be cut along straight or diagonal directions.

After beveling the lower edge, the thermos-adhesive version for toe puffs, has to be join through hot pressing at temperature between 80-110°C (polyurethane based thermos-adhesive OL), 90-120°C (polyurethane based thermos-adhesive ON) 100-130°C (polyurethane based thermoadhesive film OK) and 100-150°C (EVA based thermos-adhesive OP) pressure of 3-4 bar and pressing time between 10-15 seconds (it's depend on the type of upper, thickness of the toe-puff and of the leather).

Before mounting the toe-puff is advisable to reactivate the upper at 95-100°C.

The thermos-adhesive version for counters after beveling operation along the edge, the counter has to be insert between upper and lining and then thermoformed at 90°-120°C (polyurethane based thermos-adhesive NN) and at 100°- 150°C (white transparent EVA based thermos-adhesive PP) at a pressure of 3-4 bar for 10-15 seconds (it's depend from counter and upper thickness).

Time can be reduced if the counter thermoforming machine includes the heated cushion.

For closing the underlying flap a preheating of 70-80°C is required.

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