

## SINVEX - Italy Plastic Sleeves

SINVEX Sleeves finished to customers sizes are accurately machined from raw tubes especially produced by means of extrusion or centricasting process.

It is then possible, according to the customers needs, to produce raw tubes with the same outside diameter but with different inside dia & wall thickness.

### Major Advantages

- Higher hardness, elasticity & smoothness.
- Resistant to marking by selvages & seams.
- Low grinding frequency so lower down time.

Based on our experience we recommend a wall thickness of about 50 mm. We can, of course, supply the SINVEX Sleeves with parallel or crowned profile & fitting is done by us at our works by heat shrink fitting process + press fitting.

It is common for old Cotton or Paper rolls to be used for fitting new sleeves but care has to be taken to use the same in a supported condition with a backup roll on each side & the fiber roller has to be perfectly strong & consistently hard across the face width.

Ready Sleeves for Nipco® type calenders can also be provided with in a short lead time against supply of old sleeves or sleeve ends to exactly match the original fitting dimensions.

Outside Ø mm	Any length & thickness upto 70 mm
400 500 600 700 445 545 620 800	Centri Casted or Extruded & also Additives Filled

## Chemicals Resistant Plastic Bushings

Most Hot, Wet & Chemical applications limit the use of hard bearings where one good possibility is to use our Mekton Teflon 53 bushes suitable for temp. resistance upto 250°C & absolute chemical resistance in corrosive baths along with very low coefficient of friction (0.1 - 0.2) with excellent wear resistance (recommended only for low speeds).

## Engineering Plastics Calendering Embossing Bushings



## NIP COMPARISON

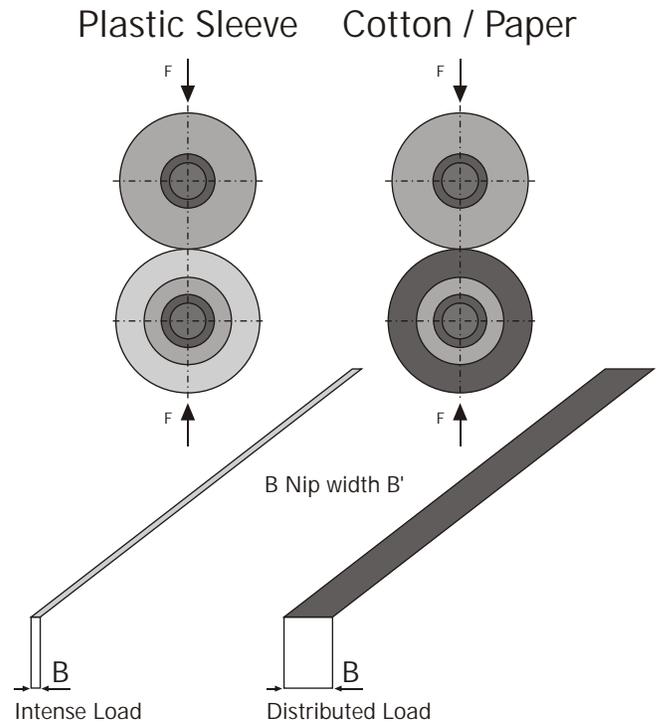
Due to the much lesser Nip width in case of Sinvex Sleeves the intensity of load is much higher as compared to soft Cotton or Paper rolls thereby enhancing the calendaring effects & smoothness of the calendared material with just 2 or 3 nips as against 5 - 8 multi-nips required on a conventional calender using Softer Cotton or Paper Bowls.

All this results in compact calenders needing far less energy & also lower down times due to negligible grinding requirements & low down time.

We recommend the following extreme values of the three fundamental parameters :

- Max. linear pressure 300 - 400 kg/cm.
- Max. speed 150 - 300 mt./min.  $\phi$  dependant.\*
- Max. temp. on Metallic Roll : 200°C - 210°C.

**CAUTION** : \* with double nip, speed is halved.



## TEFLON Heat Shrinkable Sleeves

For heat, chemical, anti-stick & adhesive applications in textiles, paper, coating, lamination & plastic films etc. On existing Rubber, Metal, Banana & Coater Rolls of any Length & Dia upto 650 mm.)



Before



In Process



Finished

The rubber roll in a coating machine, is often damaged by the emulsions / adhesives / chemicals build up etc. which can damage the roll while cleaning the buildups besides needing much more cleaning efforts.

A high thickness TEFLON FEP sleeves, ground to very close tolerance is very easy to clean & is available in wall thickness of 0.5 mm & length upto 6.1 meters (higher lengths however available on request.)

**TECHAIDS NXG**  
An ISO 9000 Company

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