

Datasheet

LD-PTFE Films & Tapes, low density

Material:

- PTFE (Polytetrafluorethylene)
- expanded, natural colour
- standard density: 0,7 g/cm³

Types:

each type is determined by thickness and width as follows:
"LD-PTFE / (thickness in µm) x (width in mm)", eg.: LD-PTFE / 76 x 20

Description of types:

LD-PTFE / 76 low density film 76 µm
LD-PTFE / 254 low density film 254 µm

Thickness:

Thickness range: 50 - 254 µm

Standard Values

- 50 µm
- 76 µm
- 102 µm
- 127 µm

special types on request

Tolerances

- 45 - 55 µm
- 71 - 81 µm
- 97 - 107 µm
- 122 - 132 µm

Standard Values

- 152 µm
- 203 µm
- 254 µm

Tolerances

- 142 - 162 µm
- 193 - 213 µm
- 244 - 264 µm

Density:

Standard Values

- 0,7 g/cm³

special types on request

Tolerances

0,65 - 0,75 g/cm³

Width: 1,5 -150 mm

Typical Properties:

Standard Values			
• Density	(calculated)	g/cm ³	0.7
• Tensile Strength (long.)	ISO 527	N/mm ²	12 min
• Elongation (long.)	ISO 527	%	70 min
• Shrinkage (long.)	200°C/15 min.	%	15 - 45

Guideline for electrical properties:

• Dielectric constant	(guideline)	ε _r	1.4
• Dissipation factor	(guideline)	tan δ	10 ⁻⁴ 1MHZ

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Typical Packaging:

- 76 mm ID cores (plastic)
- flat pads or traverse "step pack" winding on spools
- traverse packages allow the user to get more lengths and narrower widths when needed



Roll Outer \varnothing , mm

Depending on thickness & width between 150 and 250 mm

Tolerances: -50 mm / +0 mm

Storage & Handling:

Like many other materials, PTFE has a "memory" which will cause the unsintered tape to try and recover its original shape. This is particularly an issue with expanded tapes, which try to retract back to their original density. It is very important therefore to store the material in a cool, clean & dry environment where the temperature should ideally stay under +19°C at all times.

Subject to alterations!
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