



# PTFE Film low density

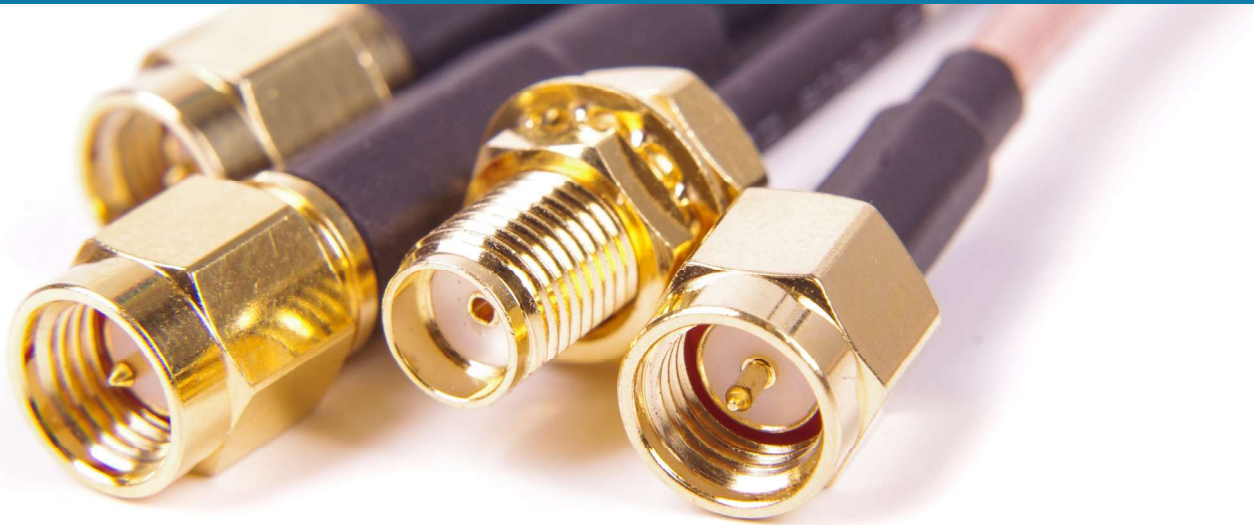
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Light weight with  
dimensional stability

# PTFE Film low density

## Polytetrafluorethylen

PTFE



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Light weight with dimensional stability

Lenzing Plastics [expanded PTFE films](#) are excellent choices for use in coaxial cable insulation wrapping with low signal loss. Available in densities as low as 0.4g/cm<sup>3</sup> and thicknesses as low as 0.05mm (2mil), these products can be made in a multitude of configurations of density and thickness to be suited for the application.



### The highest quality for the highest requirements

Selected products are available as low shrink options. These films will retract less than standard expanded products on conductor and are excellent choices for demanding insulation requirements in environments of elevated temperature.

combining  
strength and flexibility  
[www.lenzing-plastics.com](http://www.lenzing-plastics.com)

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## LD-PTFE Films & Tapes

low density

### Material

PTFE (Polytetrafluorethylene)  
expanded, natural colour  
low density

### Thickness

Thickness range: 0.05mm(2mil) - 0.254mm(10mil)

### Standard Values

0.076mm	Tolerance +/- 0.005mm
0.102mm	Tolerance +/- 0.005mm
0.127mm	Tolerance +/- 0.005mm
0.152mm	Tolerance +/- 0.010mm
0.203mm	Tolerance +/- 0.010mm
0.254mm	Tolerance +/- 0.010mm

### Width

1.5-150mm (max. width depending on thickness)

### Types

Each type is determined by thickness, width and density as follows: „LD-PTFE / (thickness in µm) x (width in mm)“, density in g/cm<sup>3</sup>

eg.: LD-PTFE / 76µm x 20mm, 0.7g/cm<sup>3</sup>

### Typical Properties

Standard Values			
Density	(calculated)	g/cm <sup>3</sup>	0.7
Tensile strength (long.)	ISO 527	N/mm <sup>2</sup>	>12
Elongation at break (long.)	ISO 527	%	>70

### Length

up to 3000 meters (9840 feet) splice free  
(depending on thickness and width)

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## Packaging and Storage

### PTFE Films & Tapes

#### Storage and handling

##### Typical Packaging

76mm ID cores (plastic)

flat pads or traverse spools, step-pack winding

##### Roller Outer Ø, mm

depending on thickness & width between 130 and 350mm



flat pad spool



step pack spool



diabolo flange spool

#### Storage and handling

Like many other materials, PTFE has a „memory“, which will cause the tape to try and recover its original shape. This is particularly an issue with expanded tape, which try to retract back to their original density. Therefore it is very important to store the material in a cool, clean and dry environment, where the temperature should ideally stay below 19 °C at all times, to avoid any deformation.