

# Datasheet

## LD-HRC-PTFE Films & Tapes, low density - „crush resistant“

### Material:

- PTFE (Polytetrafluorethylene)
- expanded, natural colour
- superior crush resistant
- dimensionally stable
- fast elastic recovery

### Types:

each type is determined by thickness and width as follows:

“LD-HRC-PTFE / (thickness in  $\mu\text{m}$ ) x (width in mm)”, eg.: LD-HRC-PTFE / 76 x 20

### Description of types:

LD-HRC-PTFE / 50                      low density - HRC film 50  $\mu\text{m}$   
LD-HRC-PTFE / 76                      low density - HRC film 76  $\mu\text{m}$

### Thickness:

Thickness range:                      50 - 125  $\mu\text{m}$

### Standard Values

- 50  $\mu\text{m}$
- 76  $\mu\text{m}$

special types on request

### Tolerances

- 45 - 55  $\mu\text{m}$
- 71 - 81  $\mu\text{m}$

### Density:

#### Standard Values

- 0,4 g/cm<sup>3</sup>
- 0,5 g/cm<sup>3</sup>

#### Tolerances

- 0,35 - 0,45 g/cm<sup>3</sup>
- 0,45 - 0,55 g/cm<sup>3</sup>

Width: 1,5 - 60 mm

### Typical Properties:

#### Standard Values

• Density	(calculated)	g/cm <sup>3</sup>	0.4
• Tensile Strength (long.)	ISO 527	N/mm <sup>2</sup>	>40
• Elongation (long.)	ISO 527	%	20
• Shrinkage (long.)	200°C/15 min.	%	15-35

### Guideline for electrical properties:

• Dielectric constant	(guideline)	$\epsilon_r$	1.4
• Dissipation factor	(guideline)	$\tan \delta$	10 <sup>-4</sup> 1MHZ

# Datasheet

## LD-HRC-PTFE Films & Tapes, low density - „crush resistant“

---

### Typical Packaging:

- 76 mm ID cores (plastic)
- flat pads or traverse “step pack” winding on spools / without flanges
- 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!

© 2014 by Lenzing Plastics