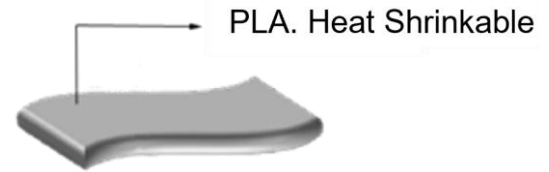


**PRODUCT** PLA. HEAT SHRINKABLE UP TO 72%**REFERENCE** 9005**DESCRIPTION**

The **9005** reference is a transparent polylactic acid film that shrinks up to 72%, biodegradable and compostable for packaging applications, bottle labels, cap sealing, etc. Thicknesses available in 45-50 µ.

**VALUES**

| PROPERTIES                   |         | Unit               | Test Method | 45    | 50    |
|------------------------------|---------|--------------------|-------------|-------|-------|
| <b>PHYSICAL PROPERTIES</b>   |         |                    |             |       |       |
| Density                      |         | gr/cm <sup>3</sup> | ASTM-D792   | 1.24  | 1.24  |
| Unit weight                  |         | g/m <sup>2</sup>   | Interno     | 55.8  | 62    |
| Average Yield                |         | m <sup>2</sup> /Kg | Interno     | 17.9  | 16.1  |
| <b>MECHANICAL PROPERTIES</b> |         |                    |             |       |       |
| Tensile strength             |         | N/mm <sup>2</sup>  | ASTM-D-882  | 48    | 48    |
| MD                           | TD      |                    |             | 131   | 131   |
| <b>SURFACE</b>               |         |                    |             |       |       |
| COF Film/Film                |         | -                  | ASTM-D-1894 | ≤0.40 | ≤0.40 |
| Static                       | Dynamic |                    |             | ≤0.40 | ≤0.40 |
| COF Film/Metal               |         | -                  | ASTM-D-1894 | ≤0.35 | ≤0.35 |
| Static                       | Dynamic |                    |             | ≤0.28 | ≤0.28 |
| <b>OPTICAL PROPERTIES</b>    |         |                    |             |       |       |
| Haze                         |         | %                  | ASTM-D-1003 | <5    | <5    |
| Gloss                        |         | G.U.               | ASTM-D-523  | 110   | 110   |
| <b>THERMAL PROPERTIES</b>    |         |                    |             |       |       |
| Retraction at 55°C 10'       |         | %                  | Internal    | 0     | 0     |
| MD                           | TD      |                    |             | 0     | 0     |
| Retraction at 60°C 10'       |         | %                  | Internal    | 0     | 0     |
| MD                           | TD      |                    |             | 25    | 25    |
| Retraction at 70°C 10'       |         | %                  | Internal    | -0.33 | -0.33 |
| MD                           | TD      |                    |             | 59    | 59    |
| Retraction at 80°C 10'       |         | %                  | Internal    | 2     | 2     |
| MD                           | TD      |                    |             | 70    | 70    |
| Retraction at 85°C 10'       |         | %                  | Internal    | 5     | 5     |
| MD                           | TD      |                    |             | 72    | 72    |



### KEY TRAITS

- Excellent mechanical properties.
- Antistatic properties.
- Good machinability.
- Retraction up to 72%
- Biodegradable into carbon dioxide, water and biomass by digestion microbes.
- Complies with DIN EN 13432 (7H0052) for compostable products and with ASTM D6400
- In compliance with European food contact regulations and with the FDA

### APPLICATIONS

The 9005 reference is a special biodegradable and compostable film for packaging applications that require a shrinkage of up to 72% in TD and less than 5% in MD. It is used for making bottle labels, cap sealing, etc.

