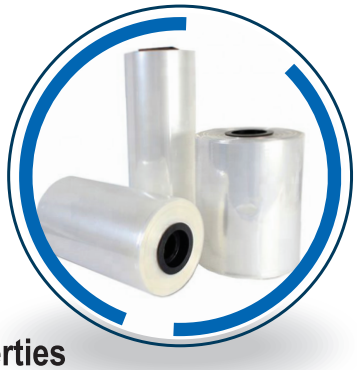
# HEAT-SHRINKABLE FILM

## POF SHRINK (POLYOLEFIN)



- multi purpose and easy to use
- excellent optical properties
- stiffness and multipacking strength
- 30% PIR post-industrial recycled polymer

**Applications:** multi purpose shrink film with a wide range of applications, intended for packing all types of food and industrial products, good mechanical strength for multipacking, optimum haze and gloss. As part of the sustainability policy and circular economy, polyolefin multi-layer shrink film with content 30% a unique post-industrial recycled polymer of selected polymers

**Presentation:** single wound, centerfolded, perforated, high slip

**Certification:** ISO 9001:2015, COBRO - Packaging Research Institute – food contact approval certificate No 29A/2016, sqts Switzerland Report no 2017L13268/1, JS HAMILTON Report no 243367/19/POZ, Mennica Metale Sp. z o.o. Report no 12/2019

**Food contact:** the above-mentioned film is in compliance with (EC) regulations 1935/2004, 10/2011 (EU) 2016/1416, 1907/2006 REACH (EU) 2018/675, 94/62/WE and (EU) 2022/1616 related to plastic materials and articles intended to come in contact with foodstuff FRF≤1

**Recycling:** 100% recyclable, just like conventional polyolefin films. Shrink film processing: acquisition of a unique recyclate of selected polymers

**Storage:** -5°C / +35°C at 80% RH Guarantee 6 months from the date of production. Product packaging at room temperature

*__Disclaimer:__ the above-mentioned values are to be considered as guideline, not as products specifications. Any informations or suggestions made in connection with product, sold represent the best information available to us and we believe to be reliable. They should not, however be construed as controlling and are presented without any guarantee either express or implied*

| PROPERTIES | Unit | Test method | TECHNICAL CHARACTERISTICS | | | |
|---|---|---|---|---|---|---|
| THICKNESS | µ | PN - ISO 4593 | **12** | **15** | **19** | **25** |
| DENSITY | g/cm³ | | **0,92** | | | |
| YIELD | m²/Kg | OWN | 91 | 73 | 58 | 44 |
| SHRINKAGE 93°C | % | ASTM D 2732 | MD 22 / TD 22 | MD 22 / TD 22 | MD 22 / TD 22 | MD 22 / TD 22 |
| SHRINKAGE 110°C | % | ASTM D 2732 | MD 45 / TD 57 | MD 44 / TD 55 | MD 43 / TD 52 | MD 42 / TD 49 |
| GLOSS 45° | % | ASTM D 2457 | 95 | 95 | 93 | 90 |
| HAZE | % | ASTM D 1003-A | 1,6 | 1,7 | 1,9 | 2,5 |
| Water vapour permeability WVTR | g/(m²*24h) | ASTM F 1249-13 | 21,58 - 30,49 | | | |
| $O_2$ PERMEABILITY | cm³/(m²*24h) | ASTM F 1249-14 | 9149 - 12621 | | | |
| WELDING TIME 200°C | s | | 0,3 | 0,4 | 0,5 | 0,6 |
| COEFFICIENT OF FRICTION | - | ISO 8295:2005 | 0,16 (+/- 0,07) | | | |
| BREAKING STRENGTH | N | ASTM D 882 | MD 27 / TD 27 | MD 30 / TD 30 | MD 32 / TD 32 | MD 35 / TD 35 |
| TENSILE STRENGTH | MPa | ASTM D 882 | MD 95 / TD 95 | MD 100 / TD 100 | MD 100 / TD 100 | MD 100 / TD 100 |
| ELONGATION AT BREAK | % | ASTM D 882 | MD 60 / TD 70 | MD 65 / TD 70 | MD 70 / TD 70 | MD 72 / TD 72 |
| ROLL LENGTH SINGLE WOUND | m | | **3100** | **2500** | **2000** | **1500** |
| ROLL LENGTH CENTERFOLDED | m | | **1550** | **1250** | **1000** | **750** |
| ROLL WIDTH | mm | | SINGLE WOUND **200 - 1600** | | | |
| | | | CENTERFOLDED **200 - 850** | | | |
| CORE / ROLL DIAMETER | mm | | (internal) 76 | | (external) 245 | |


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