



# HIGH SEAL STRENGTH FILMS WITH ULTRA LOW SIT:

*A New Approach to Sustainability  
and Sealability*



## Overview

Polibak keeps differentiating its portfolio by serving tailor made and customized solutions for its customers. **High Seal Strength Films with ultra low SIT** have been designed with this approach and offer many advantages.

### Increasing the speed of packaging machines

Aiming higher output or small package demand in the market leads the packaging machines to work with higher speeds, which need lower Seal Initiation Temperature and/or higher seal strength.

### Decreasing area of sealing in packages

Narrow sealing width is a challenge for leakages. Our **High Seal Strength films with ultra low SIT** offer better hermeticity and less leakage even for narrower seal width.

### Transporting over the mountains

**High Seal Strength Films with ultra low SIT** prevent the air leakage that occur because of the atmospheric pressure change while transporting the finished goods over the mountains.

### Downgauging while keeping the seal strength constant

Downgauging the film structures is a must environmentally and economically. **High Seal Strength Films with ultra low SIT** compensate the loss of seal strength due to the downgauging.

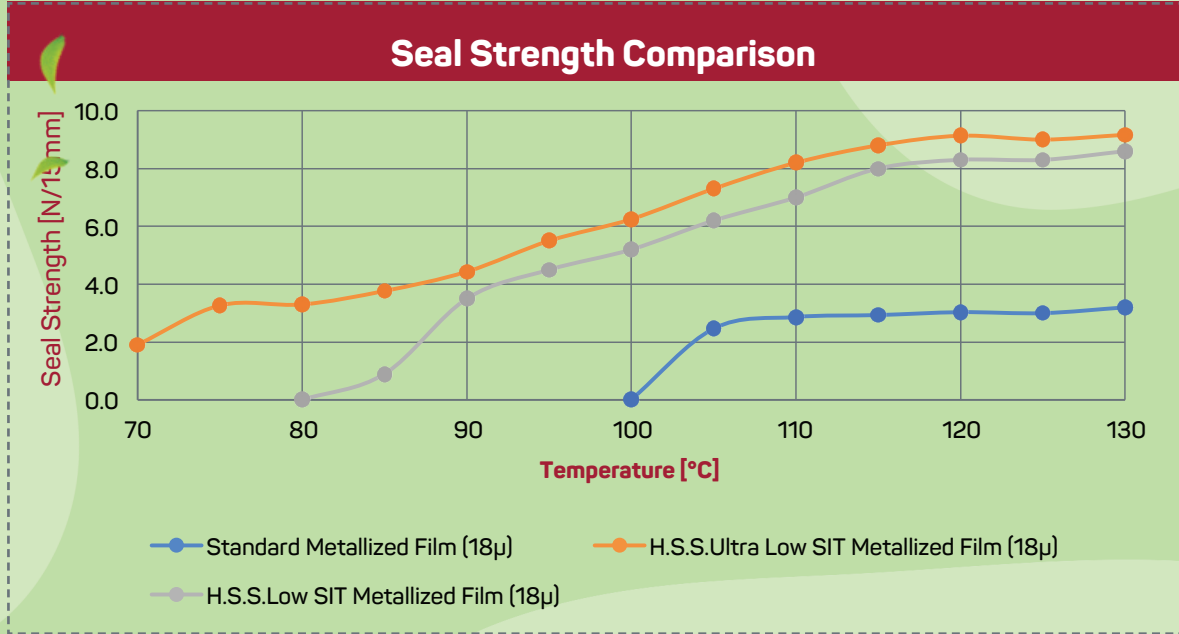
### Replacement of PE to achieve mono structure for sustainability

For the ease of recyclability, PE in PP/PE structures tends to be replaced by PP. To achieve the same sealing properties, PE can be replaced with **High Seal Strength Films**.

### Better hot tack performance

High speed machines and tight packages need a good hot tack performance not to have leakages. **High Seal Strength Films with ultra low SIT** offer promising hot tack properties as well as strong sealing performance.

## TEST RESULTS



\*H.S.S.: Heat Seal Strength

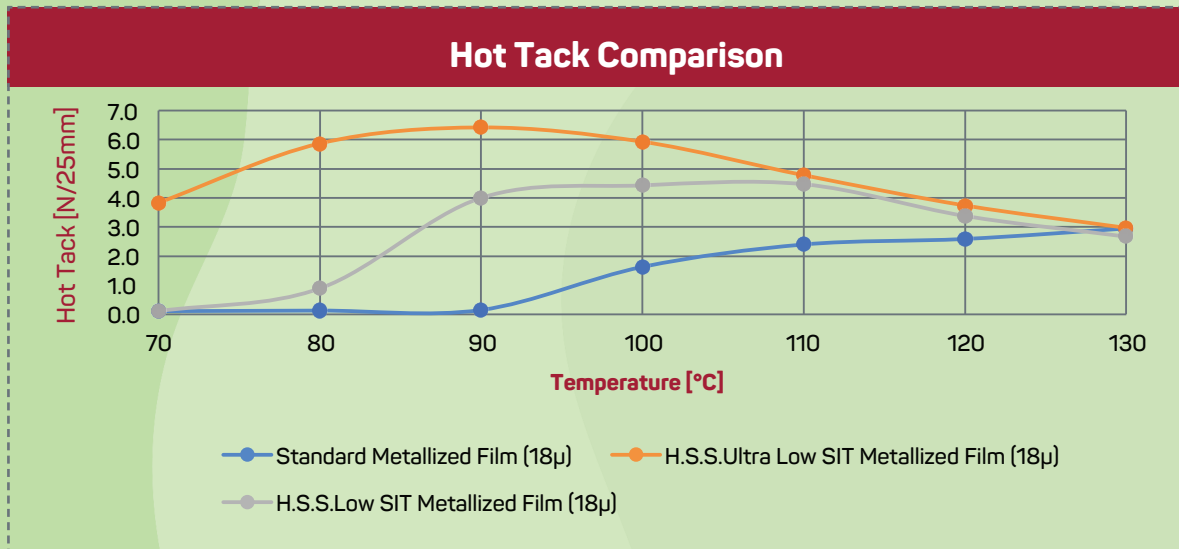
### Seal Strength Conditions

Sealing pressure: 3 bar

Sealing time: 0.5 sec

Instrument: Brugger HSG-CC

Sample width: 15 mm



\*H.S.S.: Heat Seal Strength

### Hot tack Conditions

Sealing pressure: 1 N/mm<sup>2</sup>

Sealing time: 0.2 sec

Cooling time: 0.2 sec

Instrument: J&B 5000MB

Sample width: 25 mm

## VARIETY

Transparent	Metallized (SIT @75°C)	Metallized (SIT @90°C)
LNZ	MNZ	MBX
	MBX-A	MB5-X

Thicknesses are available from 18 $\mu$  to 50 $\mu$ . For the TDS, please connect with your sales representative.

## Production Performance and End Products

**Polibak High Seal Strength Films with ultra low SIT** can be printed and laminated with the same performance with standard BOPP films. They offer a wide variety of end product applications as traditional BOPP films do.

## Regulatory Compliance

**Polibak High Seal Strength Films with ultra low SIT** are approved for food contact applications in terms of EU Regulations and FDA.

**For more information, please contact your sales representative.**