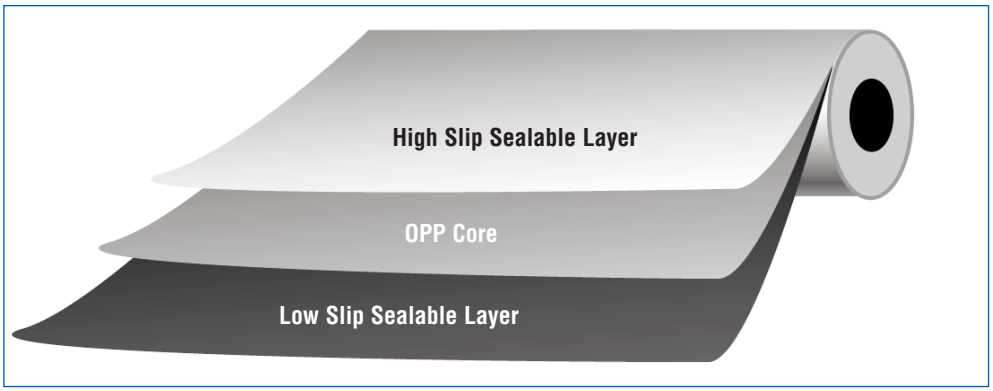
TSX
Transparent, High-Shrink OPP Film

TSX is a transparent, high-shrink, coextruded, biaxially oriented polypropylene (OPP) film. Sealable two sides.



Applications

- Overwrapping boxed products such as
  - Tea
  - Confections
  - Pharmaceuticals
  - Baked goods
- Overwrapping
  - Compact disks
  - Cassettes
  - DVDs

Features

- Good surface gloss
- Good clarity
- Wide sealing range
- Combination of slip characteristics provide a tight wrap

Cautions

- Not recommended for printed applications or for use on vertical packaging machines
- Store film below 86˚F (30˚C)
- Film should be used within six months of manufacture

Contact Us

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Slit Roll Information

Thickness Gauge	Yield in^2/lb	Basis Weight lbs/ream	Slit Roll Factors Standard length	lbs/in width
80	38,600	11.2	11,400 ft	3.6
100	30,600	14.1	9,100 ft	3.9
120	25,500	16.9	7,600 ft	4.1

Slit Roll Information – Metric

Thickness Microns	Yield m^2/kg	Basis Weight g/m^2	Slit Roll Factors Standard length	g/mm width
20	54.9	18.2	3,450 m	64.3
25	43.5	23.0	2,750 m	69.7
31	36.3	27.6	2,300 m	73.2

Low slip (high COF) surface wound on inside of slit roll. Standard rolls are 12.5 inches (318 mm) in diameter, wound on 3-inch (76.2 mm) ID paper cores. Standard widths are from 4 to 15 inches (102 to 381 mm), slit in 1/16-inch (1.5 mm) increments. Narrower and wider widths are available on request. Rolls other than 12.5 inches (318 mm) in diameter are offered through special quotation.

Regulatory and Safety: The ingredients used in this product comply with applicable FDA food packaging regulations under 21CFR (Code of Federal Regulations) Section 177.1520, Olefin Polymers. Furthermore, this product is produced with good manufacturing practices.

TSX

Film Properties

Optical Properties

Haze, % [2]	2.3
45˚ Gloss [3]	85

Barrier Properties

Gauge	WVTR [4]
80	0.40
100	0.32
120	0.27

Surface Properties

COF (out to out)	
Static	0.33
Kinetic	0.25

Seal Properties

Seal strength at 245˚F (g/in) 20 psi, 1/2 second	300

Physical Properties

	Machine Direction	Transverse Direction
Tensile strength, psi	20,000	36,000
Tensile modulus, psi	205,000	330,000
Elongation, %	190	60
Shrinkage at 248˚F, % [1]	6.5	5.5
at 266˚F, % [1]	9.0	8.0

Film Properties – Metric

Optical Properties

Haze, % [2]	2.3
45˚ Gloss [3]	85

Barrier Properties

Microns	WVTR [5]
20	6.20
25	4.96
31	4.19

Surface Properties

COF (out to out)	
Static	0.33
Kinetic	0.25

Seal Properties

Seal strength at 118˚C (g/25 mm) 20 psi, 1/2 second	295

Physical Properties

	Machine Direction	Transverse Direction
Tensile strength, kg/mm^2	14.05	25.30
N/mm^2	137.5	248.0
Tensile modulus, kg/mm^2	144.1	232.0
N/mm^2	1,410	2,275
Elongation, %	190	60
Shrinkage at 120˚C, % [1]	6.5	5.5
at 130˚C, % [1]	9.0	8.0

(1) AET Method (2) ASTM D-1003 (3) ASTM D-2457 (4) g/100in^2/24 hr at 100˚F, 90% RH (5) gm/m^2/24 hr at 38˚C, 90% RH

Key Market Applications