



## Technical Data Sheet

## Machine Stretch Film

### Description:

This stretch film designed based on Linear Low Density Polyethylene for wrapping applications by using semi-automatic and automatic machines, produced using the Cast extrusion technology. It provides exceptional properties based on your needs and available in 3 to 7 layers with customized dimensions.

General Properties			Most Commonly Used Thicknesses (ISO 4593)				
PROPERTY	STANDARD	UNIT	17µm	20µm	23µm	25µm	30µm
Grammage	ISO 536	g/m <sup>2</sup>	15.64(±3%)	18.40(±3%)	21.16(±3%)	23.00(±3%)	27.60(±3%)
Yield	ISO1183-1/4593	m <sup>2</sup> /kg	63.93(±2%)	54.34(±2%)	47.28(±2%)	43.47(±2%)	36.23(±2%)
Film density	ISO 1183-1	g/cm <sup>3</sup>	0.92(±2%)	0.92(±2%)	0.92(±2%)	0.92(±2%)	0.92(±2%)
Mechanical Properties							
Tensile Strength MD	ISO 527-3	Mpa	30 – 35	32 – 37	35 – 40	37 – 42	40 – 45
Tensile Strength TD	ISO 527-3	Mpa	25 – 30	27 – 32	30 – 35	32 – 37	35 – 40
Elongation MD	ISO 527-3	%	550 – 650	500 – 600	450 – 550	400 – 500	350 – 450
Elongation TD	ISO 527-3	%	600 – 700	550 – 650	500 – 600	450 – 550	400 – 500
Pre-Stretch	In-house method	%	260 (±8%)	250 (±8%)	240 (±8%)	230 (±8%)	220 (±8%)
Puncture resistance	ISO 3036	N	6.0 – 7.0	7.5 – 9.0	9.0 – 11.0	10.0 – 12.5	12.0 – 14.5
Cling force	ISO 29865	g/cm <sup>2</sup>	200 – 250	220 – 270	240 – 290	260 – 310	280 – 330
Cling type	In-house method	side	Dual	Dual	Dual	Dual	Dual
Optical Properties							
Haze	ISO 14782	%	3.0(±5%)	3.5(±5%)	4.0(±5%)	4.5(±5%)	5.0(±5%)
Gloss	ISO 2813	GU(60°)	80(±2GU)	75(±2GU)	70(±3GU)	65(±3GU)	60(±4GU)

- This is a basic TDS for common thicknesses and all the above specifications can be customized based on customer's needs.

### Applications:

Pallet wrapping in high-volume operations. Securing heavy loads. Suitable for warehouse storage & long-distance transportation. Fast packaging...

### Storage:

Store in a clean, dry & ventilated environment and 15-25°C temp. keep away from heat sources. Do not store under pressure loads. Use within 12 months of production for best performance. Store vertically if possible.

### Handling:

Ensure proper machine settings. Avoid sharp impacts. Use appropriate handling equipment like roll lifter.

### Packing:

Bulk rolls Palletized. Rolls stretch-wrapped. Suitable for export and tailored to client needs.