KRYTAPE®

TECHNICAL DATA SHEET (TDS)

Product Name:	Heavy-Duty Machine Stretch Film	**Product Code:**	KRY-MSF-500
Material Composition:	100% Virgin LLDPE + GRS Eco-Resin	**Processing Method:**	Cast Extrusion Multi-Layer
Place of Origin:	Dongguan, China	**Date of Issue:**	October 2026

1. PRODUCT DESCRIPTION & APPLICATIONS

KRYTAPE® Machine Stretch Film is engineered for automated turntable and high-speed arm pallet wrapping systems. Manufactured via multi-layer cast extrusion technology using 100% virgin LLDPE combined with GRS-certified eco-resin, this premium machine grade film delivers extreme pre-stretch capability up to 500%. Designed for high-performance pallet containment, superior puncture resistance against sharp cargo edges, and zero-residue load stabilization in automated logistics centers.

2. TECHNICAL PERFORMANCE SPECIFICATIONS

Technical Parameter	Specification Standard	Testing Method / Remark
Material Composition	100% Virgin LLDPE + GRS Certified Eco-Resin	Cast Extrusion Multi-Layer
Pre-Stretch Ratio	Up to 500% High Elongation	High Elastic Recovery
Thickness Range	15 Micron – 35 Micron (Customizable)	±1.5μm Tolerance
Film Width	500mm, 750mm, 1000mm, 1500mm	Custom Slitting Available
Roll Length	1500m – 6000m (Machine Grade)	Custom Meterage Available
Core Inner Diameter	3 inch (76mm) Heavy-Duty Paper Core	High Crush Resistance
Tensile Strength at Break	MD: ≥ 35 MPa / TD: ≥ 30 MPa	ASTM D882
Elongation at Break	MD: ≥ 500% / TD: ≥ 450%	ASTM D882
Puncture Resistance	≥ 45 N	High Tear & Sharp-Edge Resistance
Cling Property	One-Side Cling / Two-Side Cling (Silent/Low Noise Option)	Zero Residue on Cargo

3. KEY FEATURES & BENEFITS

- **Extreme 500% Pre-Stretch:** Significantly reduces plastic material consumption per pallet wrapped while maximizing load stability.
- **High Puncture & Tear Resistance:** ≥45N puncture strength protects against sharp pallet corners and irregular freight edges.

4. STORAGE & SHELF LIFE

- **Storage Environment:** Store rolls vertically in original packaging away from direct sunlight and heat sources.
- **Recommended Temp/Humidity:** 15°C – 25°C (59°F – 77°F) at 40% – 60% Relative Humidity.
- **Shelf Life:** 12 Months from manufacture date when stored in clean, dry indoor conditions.

- **Silent Unwrap & One-Side Cling:** Low noise operation during high-speed wrapping with zero sticky residue on wrapped goods.
- **GRS Certified Eco Material:** Sustainable formulation incorporating high-clarity virgin LLDPE and recycled resin blends.
- **Machine Compatibility:** Optimized for all standard turntable, rotary arm, and high-speed orbital stretch wrapping machines.

5. STANDARD PACKAGING & ROLL STANDARD

Width Options	Roll Length Range	Core Diameter	Packaging Standard
500mm, 750mm, 1000mm, 1500mm	1500m – 6000m (Machine Grade)	3 inch (76mm) Heavy-Duty Paper Core	1 Roll / Carton or Palletized Bulk Wrapping

Disclaimer: The technical data provided above represents average values obtained from standardized testing procedures and are intended as a guide only. Customers are advised to test the suitability of the product for their specific application prior to bulk commercial use. KRYTAPE® guarantees product consistency under quality management standards ISO 9001. Manufactured in Dongguan, China.