PEMBAFLEX
FLEXIBLE PACKAGING MADE EASY

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TECHNICAL PROPERTIES

PEMBAFLEX
ULTRATHENE™

Ultra Downgauge Shrink

Ultra-Downgauge Shrink Polyethylene Film



PembaFlex ULTRATHENE™ is an ultra-downgauge shrink polyethylene film engineered for maximum packaging efficiency and high-performance industrial applications.

The film is designed to provide reliable load containment and packaging stability while reducing material consumption. ULTRATHENE™ is intended for applications where lightweight film structures, efficient processing, reduced packaging weight and improved operational performance are required.

PRODUCT APPLICATIONS

- High-volume beverage multipack packaging
- Bottled water packaging
- Soft drink packaging
- Cans and canned products
- Retail-ready multipacks
- Collation and bundling
- Secondary packaging
- Industrial packaging
- Transport and storage packaging
- Food and consumer packaging
- Promotional packaging
- Printed multipack packaging
- Material-reduction packaging programmes
- Packaging efficiency applications

FILM PROPERTIES

- Ultra-downgauge film structure
- Lightweight construction
- Reduced material consumption
- Improved packaging efficiency
- Superior load performance
- Excellent load stability
- Reliable shrink performance
- Reliable heat sealing
- Good tensile strength and elongation
- Good tear and puncture resistance
- Reduced packaging weight
- Reduced operational costs
- Suitable for high-volume packaging
- Good film handling and machine compatibility
- Suitable for printed packaging
- Advanced film technology
- Suitable for 3-layer polyethylene film structures

TECHNICAL DATA SHEET

PROPERTY	TESTING METHOD	SPECIFICATION
Thickness	ASTM D6988	Application dependent
Haze	ASTM D1003	Application dependent
Width	Internal Measurement	200–1 250 mm
Tensile @ Break	ASTM D882	To be confirmed
Elongation @ Break	ASTM D882	To be confirmed
Dart Drop Impact	ASTM D1709	To be confirmed
C.O.F.	ASTM D1894	0.20–0.35
Shrinkage – MD	ASTM D2732	Application dependent
Shrinkage – TD	ASTM D2732	Application dependent
Clarity	ASTM D1003 / Visual	Clear / High Clarity
Gloss	ASTM D2457	Application dependent
Seal Performance	Application Dependent	To be confirmed

*Final specifications require validation against the approved downgauged film structure and end-use application.

DISCLAIMER

The values stated in this Technical Data Sheet are preliminary working specification targets for the **PembaFlex ULTRATHENE™** film draft specification. Actual film performance may vary according to film thickness, resin formulation, layer allocation, processing conditions, machine configuration and end-use application.

Final downgauged thickness, resin grades, formulation, layer ratios, approved film gauges and finished-film test results require technical confirmation. ULTRATHENE™ should be validated through application trials before commercial approval.