

TECHNICAL FILMS · GRADE KP-LAM

Lamination Film

PE sealant film for laminated food and pharmaceutical packs

Thickness	Width	Seal initiation	Treated side
20–150 µm	**300–2,200 mm**	**95–110 °C**	**≥ 38 mN/m**

PRODUCT DESCRIPTION

PE sealant film for laminated food and pharmaceutical packs, with an inner sealing layer tuned to your laminate.

We select a film from our standard range or adapt it to your sealing conditions and the stiffness you need, from stiff to elastic. Every lamination film we make is set up for the customer who uses it.

APPLICATIONS

- Food packaging
- Pharmaceutical packaging

KEY FEATURES

- **Reliable seals.** Inner sealing layer designed for your laminate and sealing window.
- **Tailored stiffness.** Mechanical properties set anywhere from stiff to elastic.
- **Converter-ready rolls.** Widths from 300 to 2,200 mm on 76–152 mm cores.
- **Made for food contact.** Produced under FSSC 22000, with declarations of compliance for your market on request.

TECHNICAL SPECIFICATIONS

Thickness	**20–150 µm**	Roll width	**300–2,200 mm**
Core inner diameter	**76–152 mm**	Sealing layer	**To order**
Food-contact compliance	**EU 10/2011, FDA 21 CFR 177.1520**		

CERTIFIED MANAGEMENT SYSTEMS

ISO 9001:2015 Quality management	**FSSC 22000 v6** Food safety for PE bags and films, food and non-food use	**OK Recycled** Recycled content to EN 15343
ISO 14001:2015 Environmental management	**ISO 45001:2018** Occupational health and safety	**EcoVadis Committed** Sustainability rating

Certificates and declarations of compliance for supplier approval on request.

TYPICAL PROPERTIES

Typical values on **50 µm** film at 23 °C and 50 % RH, unless stated otherwise.

Property	Test method	Unit	Typical value
MATERIAL AND TOLERANCES			
Material	—	—	**Co-extruded PE with LLDPE / mLLDPE sealant layer, 3 layers**
Thickness tolerance	ISO 4593	%	**± 5**
MECHANICAL			
Tensile strength at break, MD / TD	ASTM D882	MPa	**20–40 / 20–45**
Elongation at break, MD and TD	ASTM D882	%	**700–1,100**
1 % secant modulus, MD / TD	ASTM D882	MPa	**150–300 / 150–350**
Dart drop impact, method A	ASTM D1709	g	**200–400**
SEALING AND SURFACE			
Seal strength	ASTM F88	N/15 mm	**15–25**
Seal initiation temperature	ASTM F88	°C	**95–110**
Hot tack	ASTM F1921	N/15 mm	**3–6**
Coefficient of friction, slip grades (static)	ISO 8295	—	**0.18–0.30**
Surface tension, treated side	ASTM D2578	mN/m	**≥ 38**
OPTICAL			
Haze, clear grades	ASTM D1003	%	**6–10**
Gloss, 45°	ASTM D2457	GU	**60–80**

Typical results from production testing, not specification limits. Properties vary with thickness and grade; data for your gauge on request. MD = machine direction, TD = transverse direction.

Packaging

- **Core diameter:** 76 or 152 mm
- **Roll size:** To your converter
- **Per 40′ container:** About 20–23 t
- Wrapped, labeled and stretch-wrapped on pallets

Storage

- Indoors, dry, away from direct sun, rain and heat
- Keep in the original packaging; first in, first out.

5–30 °C	≤ 65 %	12 mo.
Temperature	Humidity	Shelf life

Labeling

Every delivery comes with a Certificate of Analysis (CoA). Each label shows:

- Product, grade and dimensions
- Batch number and production date
- Net weight and customer PO

SUSTAINABILITY

The information in this data sheet is based on our current knowledge and production testing. It is a guide only and is not a specification or a warranty of fitness for a particular use; performance depends on processing, handling and use conditions. Specifications are agreed in writing per order. Karawia Pack may update this sheet without notice; the latest revision applies.