

PRODUCT SPECIFICATION SHEET

Silicon-Free Flexible Packaging — Bags & Film Rolls

ELI Packaging Industries Pte Ltd

24 Tuas Ave 9, Singapore 639180

+65 6874 5322 · eli@elipackaging.com

www.elipackaging.com



BAGS · CLEANROOM

SF-CL100 — Cleanroom PE Bags

Silicon-free, amide-free LDPE/LLDPE bags converted and packed under Class 10k cleanroom conditions.

Material	Silicon-free LDPE/LLDPE blend, no slip or amide additives
Thickness	50 – 150 µm (±5% tolerance)
OTR	≤ 7,000 cc/m ² /24h at 23°C, 0% RH
WVTR	≤ 18 g/m ² /24h at 38°C, 90% RH
Seal strength	≥ 18 N/25mm (heat seal)
Sizes	100×150 to 600×900 mm; gusseted and flat
Printing	Up to 8-colour flexo; cleanroom-safe inks
Machineability	COF 0.25-0.45 controlled; non-migratory anti-block
Compliance	FDA 21 CFR 177.1520; EU 10/2011; lot COA with extractables summary

BAGS · BARRIER · RECYCLABLE

SF-PP300 — High-Barrier Mono-PP Bags

Recyclable mono-material PP bags with AlOx barrier coating for oxygen-sensitive pharma products.

Material	Mono-PP + AlOx barrier coating (single-polymer)
Thickness	60 – 120 µm
OTR	≤ 5 cc/m ² /24h at 23°C, 0% RH
WVTR	≤ 3 g/m ² /24h at 38°C, 90% RH
Seal strength	≥ 22 N/25mm
Sizes	80×120 to 500×700 mm
Printing	8-colour flexo or digital; matte/gloss registered
Machineability	VFFS/HFFS proven; seal window 130-170°C
Compliance	EU 10/2011 migration tested; REACH; PP-recyclable



BAGS · BARRIER

SF-PA66 — Nylon Barrier Bags

PA/PE laminate bags for vacuum and gas-flush applications requiring puncture resistance.

Material	PA/PE laminate, silicon-free adhesive system
Thickness	70 – 150 µm
OTR	≤ 10 cc/m ² /24h at 23°C, 0% RH
WVTR	≤ 8 g/m ² /24h at 38°C, 90% RH
Seal strength	≥ 25 N/25mm
Sizes	100×150 to 600×900 mm; vacuum-capable
Printing	Up to 8-colour flexo
Machineability	Chamber/nozzle vacuum; thermoforming compatible
Compliance	FDA 21 CFR 177.1500/177.1520; EU 10/2011

ROLLS · FFS

SF-FFS50 — Form-Fill-Seal Rollstock

Silicon-free rollstock webs for HFFS/VFFS lines — registered print, consistent COF, reliable hot-tack.

Material	PET/PE, PA/PE or mono-PP; silicon-free
Web width	200 – 1,200 mm, slit to spec
OTR	≤ 8 cc/m ² /24h (structure dependent)
WVTR	≤ 5 g/m ² /24h (structure dependent)
Seal strength	≥ 20 N/25mm; hot-tack optimized
Thickness	50 – 150 µm
Printing	Up to 10-colour flexo, eye-mark registered
Machineability	Validated on major HFFS/VFFS platforms
Compliance	FDA 21 CFR; EU 10/2011; web-level traceability



ROLLS · BARRIER · STERILE

SF-ALX80 — AlOx Barrier Lidding Film

Transparent AlOx-coated lidding film with ultra-low OTR for tray lidding and medical devices.

Material	PET/AlOx or PP/AlOx; peelable or weld-seal lacquers
Thickness	36 – 75 µm
OTR	≤ 1 cc/m ² /24h at 23°C, 0% RH
WVTR	≤ 2 g/m ² /24h at 38°C, 90% RH
Seal strength	Peel 8–15 N/25mm fiber-free; weld ≥ 20 N/25mm
Formats	Rollstock; pre-cut lids on reel or sheet
Printing	Up to 8-colour reverse flexo
Machineability	PET/PP/PVC/PS trays; rotary platen proven
Compliance	ISO 11607-1 compatible; EtO, gamma 25–50 kGy, e-beam stable

BAGS · STERILE

SF-MDP — Sterile-Grade Medical Pouches

Medical device pouches with controlled peel, particulate-controlled materials, ISO 11607 validation support.

Material	PET/PE clear film + medical-grade porous web
Thickness	60 – 100 µm film; 55–70 g/m ² web
OTR	≤ 15 cc/m ² /24h (porous web side)
WVTR	≤ 10 g/m ² /24h
Seal strength	Peel 6–12 N/25mm, consistent fiber-free peel
Sizes	50×100 to 400×600 mm; die-cut or chevron
Printing	Process indicators (EtO/gamma); 6-colour branding
Machineability	Manual to rotary sealers; seal window 140–180°C
Compliance	ISO 11607-1/-2; ISO 11135/11137/13004; USP <788> particulate tested