







**High Barrier Laminates** 

Protect to perform.

# **High Barrier Primary Packaging**

# Typical material structures in double wounded PP film

- PET SiOx / PP PP / PET SiOx
- PET SiOx / OPA / PP PP / OPA / PET SiOx

#### **Application Fields**

- O<sub>2</sub> sensitive products
- Aseptic filled products
- Retort applications
- Biopharmaceuticals
- Single- or multi-chamber bags

# **High Barrier Secondary Packaging**

# Typical material structures in two or three layer laminates

- PET AlOx / PP
- PET SiOx / PP
- PET SiOx / OPA/ PP
- PET SiOx / PET SiOx / PP

### **Application Fields:**

- Overwrap films
- O<sub>2</sub> sensitive products
- Retort applications

#### Available as:

- Pre-made 3-side seal pouches
- Reel fed materials

# **Key Benefits for Primary and Secondary Packaging**

- Outstanding gas barrier properties
- Minimized H<sub>2</sub>O and CO<sub>2</sub> loss
- High transparency
- Aluminium- and PVC-free
- In-house R&D for customer-specific solutions

## **General Information for Film Manufacturing**

- Converting of laminates under ISO Class 8 conditions and compliant with ISO Class 7 requirements
- Production in compliance with Chinese GMP
- Pouch manufacturing under ISO Class 7 conditions

## **Typical Barriere Values**

Laminate	Typical OTR @23°C/50% RH	Typical MVTR @23°C/85% RH
PET AlOx - PP	≤0.6 cm³/m² x d x bar	≤0.6 g/m² x d
PET SiOx - PP	≤0.5 cm³/m² x d x bar	≤0.5 g/m² x d
PET SiOx - OPA - PP	≤0.3 cm³/m² x d x bar	≤0.3 g/m² x d
PET SiOx - PET SiOx - PP	≤0.2 cm³/m² x d x bar	≤0.2 g/m² x d