

Flexible Packaging Common Material Structures & Application



Item		Oxygen permeability (cm ³ /m ² •24hrs)	Water permeability (g/m ² •24hrs)	Material Structure	Features	Applications
High Barrier Packaging	High temperature Retort packaging	≤0.1	≤0.1	PET12/INK/AL7/NY15/RCP60-70	Retorting resistance, puncture resistance, drop resistance	Heavy-duty drop-resistant retort packaging
		≤0.1	≤0.1	PET12/AL7/RCPP60-70	Retort-resistant packaging	High-grade lightweight retort-resistant food
	High barrier or liquid packaging	≤0.1	≤0.1	PET12/INK/AL7/NY15/PE60-100	Good barrier performance and drop resistance	Vacuum packaging, high-end electronic products, jelly, milk powder, juice packaging
		≤0.1	≤0.1	PET12/INK/AL30/PE60-100	Good gas barrier and humidity performance	bottle cap film
		≤0.1	≤0.1	PET12/INK/AL7/PE80-120	Good gas barrier and humidity performance	sauces, juices
		≤0.1	≤0.1	PET12/INK/AL9//Surlyn30	High resistance to sealing contamination	ketchup packaging
		≤0.1	≤0.1	BOPP38/INK/AL7/ CPP40	Good gas barrier and humidity performance	Lightweight solid or powder packaging
		≤0.1	≤0.1	BOPP18/INK/AL7/PE30-60	Good gas barrier and humidity performance	Lightweight premium food
		≤2	≤0.5	BOPP18/INK/VMPET12/PE30-60	Good gas barrier, moisture barrier, light barrier properties, lightweight food	tea
	traditional potato chips, High-grade puffed food inflatable	≤2	≤0.5	BOPP18-20/INK//PE15/VMPET12/ CPP20	Good gas barrier, moisture barrier, light barrier properties, lightweight food	Potato Chips (Pepsi, LIWAYWAY)
		≤2	≤0.5	BOPP18-20/INK//PE15/VMPET12//PE20-30	Good gas barrier, moisture barrier, light barrier properties, lightweight food	tea
	≤5	≤0.7	PET12/INK/VMCPP20-30	Good barrier property, good stiffness, heat resistance	candy	
Cling film	≤10	≤8	NY15/INK/EOE55/EVA30	High barrier, heat sealable for PP	Jelly cover film PP	
Biscuit, low-grade puffed	≤10	≤0.7	BOPP20/INK/AD/VMCPP20-30	High barrier properties, excellent barrier properties to air, moisture and light, puffed food	Biscuit, dried fruit, puffed food packaging	
Medium barrier packaging		≤15	≤4.5	KNY15/INK/PE40-80	Good barrier property, Boiling Resistance nice	Bamboo and mushroom products
	wagashi packaging	≤15	≤5.0	KOPP22/INK/AD/PE30-50	Good barrier properties, oil and grease resistance, lightweight dry packaging	wagashi
		≤15	≤5.0	KBOPP22/INK/AD/ CPP20	high transparency	
		≤50	≤3.5	PET12/INK/NY15/PE80-120	Medium barrier performance, drop resistance	Liquid stand up pouch
	Transparent high temperature cooking packaging	≤60	≤4.5	NY15/INK/RCPP60-70	Retort-resistant packaging	
		≤60	≤4.5	NY15/INK/PE60-120	Good sealing performance and good vacuuming performance	rice bags
	≤60	≤4.5	NY15/INK/PE40-80	Good sealing performance and good vacuuming performance	Vacuum packaging products	
Normal Packaging	wet wipes	≤100	≤4.5	PET12/INK/PAPER80/EVA30	Barrier Property medium, can be combined with paper, PS/PP sealing	Bowl cover film (Brand Nissin, Master Kong, Uniform)
		≤1200	≤5.0	INK/SOPP25	Excellent heat sealing performance and good	Ice packaging
		≤1200	≤5.0	BOPP20/INK/PET12/WPE30-60	Good gas barrier and humidity performance	Premium wet wipes packaging
		≤1200	≤5.0	BOPP18-20/INK/AD/WPE30-60	Good air and moisture barrier properties Can be used in lightweight wet packaging	wet wipes packaging
		≤2000	≤8	INK/CPE40-60	Excellent heat sealing performance	personal care products

Just for reference. Material structure will be decided by final projects.