

General property

TYPE		HX	AX	T	TX	VX	LX	L	NR	NY	S		
Item		OPET	OPET	OPET	OPET	OPET	OPET	OPET	OPA	OPA	OPVA	Method	
Features		High Barrier	High Barrier	Retort	Retort	Standard Flavor Barrier Boil-able	PV Back Sheet Water -Resistance	Standard Clarity	Retort Impact Strength Durability	Standard Liquid -Sachet	High Barrier Gelbo-flex Durability		
WVTR*1	40°C, 90%RH g/m ² /day	0.08	0.15	0.3	0.5	0.5	0.2	0.3	0.7	0.7	0.1	ASTM F-1294*1	
O2TR*1	25°C, 80%RH cc/m2/day/atm	0.1	0.3	0.3	0.5	0.5	0.4	0.5	0.5	0.5	< 0.1	ASTM D-3985*1	
Haze	%	4	4	4	4	4	4	4	3	3	1	ISO 13468-1	
Light Transmission Rate	%	89	89	86	4	89	89	89	90	90	86	ISO 13468-1	
Tensile Strength	MD	Mpa	220	220	220	220	220	220	260	260	280	ISO 527-3	
		Kg/mm ²	22	22	22	22	22	22	22	26	26		28
	TD	Mpa	230	230	230	230	230	230	230	300	300		300
		Kg/mm ²	23	23	23	23	23	23	23	30	30		30
Tensile Elongation	MD	%	110	110	110	110	110	110	110	110	90	ISO 527-3	
	TD	%	110	110	110	110	110	110	90	90	80		
Puncture Impact Strength	J/piece	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.6	1.6	0.9	Puncture test	
	Kg·cm/piece	7	7	7	7	7	7	7	16	16	9		
Dynamic coefficient friction	Substrate / Substrate	0.45	0.45	0.45	0.45	0.45	0.45	0.45	-	0.4	0.45	ISO 8295	
Shrinkage (Dry heat)	MD	%	1	1	1	1	1	1	-	-	2.5	180°C, 5min	
	TD	%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-	-	1.5		
Shrinkage (Hot water)	MD	%	-	-	-	-	-	-	1.5	1.5	-	95°C, 5min	
	TD	%	-	-	-	-	-	-	2	2	-		
Yield	g/m ²	16.8	16.8	16.8	16.8	16.8	16.8	16.8	17.4	17.4	15.6		
Food Sanitation Law (JAPAN)		✓	✓	✓	✓	✓	-	✓	✓	✓	✓		
FDA*2		★	★	✓	✓	✓	-	✓	✓	✓	✓		
EUD*2		★	★	✓	★	✓	-	✓	✓	✓	✓		
Drug Master Files		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Preliminary evaluation by customer is strongly recommended

*1:Data as laminated film.

*2:★ is adopting FDA and EUD.