

Toyobo's PYLEN® Film OT is a biaxially oriented film made primarily from polypropylene. Toyobo developed the film with improved dimensional stability under heat (high heat resistance) and sturdiness (high rigidity) while preserving the good transparency and mechanical properties of the PYLEN® line.

FEATURES

P2171 is compared against P2161 below.

- (1) Improved dimensional stability under heat (high heat resistance): Promises less loss in printing and laminating processes. Increases product value by improving the appearance and finish of packaging.
- (2) Improved sturdiness (high modulus): Improves the appearance of packaging that needs to stand on its own. Offers environmental advantages via thinner, less voluminous products.

USE

Optimal base material for general food packaging.

Moreover, owing to its improved workability, P2171 can be processed for diverse uses.

General physical property of film

Item		Unit	P2171 (DP049)			P2161	Measuring method
Thickness		μm	20	25	30	20	
Haze		%	1.5	1.6	1.8	1.2	JIS K7105
Wetting tension	Involute	mN/m	39	39	39	39	JIS K6768
	Revolute		-	-	-	-	
Surface resistivity	Involute	logΩ	12.0	12.0	12.0	11.5	JIS K6911
	Revolute		-	-	-	-	
Dynamic friction coefficient	Involute	-	0.30	0.30	0.30	0.25	JIS K7125
	Revolute		0.42	0.42	0.42	0.40	
Heat shrinkage rate (120 degrees C, 5mins)	Length	%	2.1	2.0	2.0	3.5	JIS K6782
	Width		0.0	0.0	0.0	0.8	
Heat shrinkage rate (150 degrees C, 5mins)	Length	%	6.0	5.8	5.8	25.5	JIS K6782
	Width		5.0	4.9	4.8	31.0	
Tensile breaking strength	Length	MPa	140	145	145	130	JIS K7127
	Width		350	355	355	350	
Tensile breaking elongation	Length	%	250	250	250	270	JIS K7127
	Width		50	50	50	50	
F-5 (Stress of 5% deformation)	Length	MPa	45	45	45	35	JIS K7127
	Width		100	100	100	90	
Young's modulus	Length	GPa	2.2	2.2	2.3	1.8	JIS K7127
	Width		4.1	4.1	4.2	3.8	

On these data, the representative values were measured under the specialized condition (23 degrees C, 50%RH) at our company's film feature evaluation agency.

Heat sealing features

