

TECHNICAL DATA SHEET

TPS23 Barrier High Shrinkage Shrink Bag *Revision Number: TDSTPS23A5*

1. Physical Property Parameter (Irradiated)

No.	Item	Direction	Result	Unit	Test Method
1	Tensile Strength	MD TD	≥ 40 ≥ 50	MPa	GB/T 1040.3
2	Elongation at Break	MD TD	≥ 50 ≥ 100	%	GB/T 1040.3
3	Hot Water Shrink Rate	MD TD	40 ~ 53 42 ~ 55	%	GB/T 19787 (85°C water, 5s)
4	Heat-sealing Strength	-	≥ 20	N/15mm	GB/T 28117
5	OTR	-	< 10	cm ³ /m ² ·24h·0.1MPa	GB/T 28117
6	WVTR	-	< 10	g/m ² ·24h	GB/T 28117

2. Specification

No.	Item	Size Range	Tolerance
1	Thickness	50 μ m	$\pm 10\%$
2	Width	165 mm - 500 mm	0 ~ +7%
3	Length	120 mm - 1100 mm	0 ~ +5%

3. Appearance Parameter

No.	Item	Description
1	Wrinkle	Slight intermittent wrinkles are allowed
2	Strips and Bubbles	Acceptable if no failure of usage and functions
3	Scratch, overheating and puncturation ... etc.	Not Allowed
4	Film Sticking and Layer Splitting	Not Allowed
5	Foreign Matters, Odors, Smudge and oil stain etc.	Not Allowed
6	Sealing Area	No Insufficient Seal, Flat and No Bubbles
7	Shape of Sealed	Straight line end sealed, Curve end sealed, Side Sealed
8	Other Defects of Film	Can't affect the use of the bags

4. Health Index

No.	Item	Limitation	Test Result	Test Method
1	Potassium Permanganate Consumption (distilled water, 60°C, 2h)	$\leq 10 \text{ mg/kg}$	0.4 mg/kg	GB 4806.7
2	Heavy Metal (as Pb), 4% acetic acid, 60°C, 2h	$\leq 1 \text{ mg/kg}$	< 1 mg/kg	GB 4806.7
3	Overall Migration (10% ethanol, 20°C, 10d)	$\leq 10 \text{ mg/dm}^2$	2 mg/dm ²	GB 4806.7
	Overall Migration (95% ethanol, 20°C, 10d)	$\leq 10 \text{ mg/dm}^2$	1 mg/dm ²	GB 4806.7
4	Total Solvent Residue	$\leq 10 \text{ mg/m}^2$	0.1 mg/m ²	GB 4806.7
5	Benzene Solvent Residue	$\leq 2 \text{ mg/m}^2$	Not Detected	GB 4806.7

Conclusion: The test results correspond with the target according to GB 4806.7.

5. Application

Packaging for fresh meat, processed meat, etc. Storage Temperature: Normal temperature below 30°C.