



Thai Toray Synthetics Co., Ltd. (TTS)

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Technical data sheet of Metalion CPP type ZK99S Cast Polypropylene Film

For thickness 60 micron

Item		Unit	QA Standard	Typical Value	Test Method
Thickness		Micron	60±5%	60.30	JIS Z1702
Grammage		g/m ²	54±5%	54.27	densxthickness
Tensile Strength	MD/TD	Kg/mm ²	>2.5/>2.0	5.7/4.2	JIS K7127
Elongation	MD/TD	%	>500/>500	870/990	JIS K7127
Young's modulus	MD/TD	Kg/mm ²	>30/>30	43/43	JIS K7113
Haze		%	20.0-60.0	47.83	JIS K7105
Coefficient of Friction	Sta/dyn	-	<1.50/<1.50	1.30/1.10	ASTM D1894
Wetting Tension	Dyne/cm	Dyne/cm	≥36	42	JIS K6768
Fish Eye (Size > 0.5 mm ²)		Point/m ²	<10	2	Defect detector
Heat seal strength	MD	Kg/15mm	>5.0	8.3	TTS Method
Oxygen Permeability		cc/m ² /day	<3000	1500	JIS K7126B
WVTR		g/m ² /day	<15	6.22	JIS K7129B

REMARK: MD = Machine Direction, TD = Transverse Direction, TREATED SIDE: *Inside*.

Heat Seal Strength condition: 200 °C, 2 kgf/cm², and 1.0 sec., Substrate: ONY/CPP laminate. (Before retort treatment)

The above values are the reference but not for guarantee. We accept no responsibility for results obtained by the applicant of this information or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes.