

# SPSPET-TPT-F9

**Product Description:**

TPT-F9 is a transparent polyester film  
It is both side untreated or one side corona treated

**Application:**

Thermal lamination  
Document lamination

**Key Features:**

- \*Good transparency & clarity
- \*Balance shrinkage
- \*Outside corona treated for improved bond with outer substrate
- \*Excellent machinability & handling properties

Properties	Technical Values								Unit	Test Method
Thickness	10	11	12	15	19	23	36	50	Micron	SPS
	40	44	48	60	76	92	144	200	Gauge	
Haze	3.5	3.5	3.5	4.0	4.0	4.5	4.5	5.0	%	ASTM D-1003
Yield	71.42	64.93	59.52	47.62	37.59	31.05	19.84	14.28	m <sup>2</sup> /kg	SPS
	50318	45745	41934	33550	26483	21876	13978	10060	in <sup>2</sup> /lb	
Tensile	2000	2000	2000	2000	2000	2000	2000	2000	Kg/cm <sup>2</sup> TD	ASTM D-882
	1900	1900	1900	1900	1900	1900	1750	1750	Kg/cm <sup>2</sup> MD	
	28500	28500	28500	28500	28500	28500	28500	28500	(Psi) TD	
	27000	27000	27000	27000	27000	27000	25000	25000	(Psi) MD	
Elongation	80	80	85	85	90	90	90	90	% TD	ASTM D-882
	100	100	105	105	110	115	120	125	% MD	
Linear Shrinkage (30 Minute at 1500C)				2.0					% TD	ASTM D-1204
				4.0					% MD	
Density	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	gm/cc	ASTM D-1505
Grammage	14.0	15.4	16.8	21.0	26.6	32.2	50.4	70.0	gm/m <sup>2</sup>	SPS
Treatment Level (Corona treated Side)	52	52	52	52	52	52	52	52	dyne/cm	ASTM D-2578
C. O. F (Corona treated to plain) (Plain to plain)	0.55	0.55	0.55	0.55	0.55	0.50	0.50	0.50	-	ASTM D-1894
	0.50	0.50	0.50	0.50	0.50	0.45	0.45	0.45		
O.T.R. (230C & 0%RH)	155	130	130	110	90	80	70	45	cc/m <sup>2</sup> /day	ASTM D-3985
	10.1	8.5	8.5	7.1	5.8	5.2	4.5	2.9	(cc/100in <sup>2</sup> /day)	
W.V.T.R.(38 0C & 90%RH)	50	45	45	40	35	30	20	16	gm/m <sup>2</sup> /day	ASTM F-1249
	3.2	2.9	2.9	2.6	2.3	2.0	1.3	1.0	gm/100in <sup>2</sup> /day	