

TYPICAL PROPERTIES OF 1000 Clear Polystyrene Film

A crystal clear, biaxially oriented polystyrene that is dimensionally stable, contains no plasticizers, will not absorb moisture, and allows water vapor and gasses to pass through easily. A high gloss, stiff, stable film that will not wrinkle or pucker. Excellent for printing.

Properties		Units	Typical Values					Test Method
Thickness	mil		1.25	1.50	2.00	4.00	7.00	ASTM D6988
	µm		31	38	51	102	175	
Yield	in ² /lb		21,099	17,573	13,180	6,594	3,767	ASTM D4321
	m ² /kg		30.009	24.994	18.746	9.379	5.358	
Basis Weight		g/m ²	33.3	40.01	53.35	106.69	114.68	—
Haze		%	1.50	1.75	2.0	2.8	5.0	ASTM D589
Gloss 60°		%	150	155	160	170	140-180	ASTM D2457
Tensile Strength	MD	lb/in ²	11,500	11,500	11,000	9,500	9,800	ASTM D882
	TD		12,500	12,000	11,500	10,000	9,800	
Elongation at Break		%	3 to 5	3 to 5	3 to 5	3 to 5	5.5 to 6	ASTM D882
COF		—	0.4	0.4	0.4	0.4	0.4	ASTM D1894
Surface Energy		dyne/cm	Untreated Natural ≈ 34-36	Untreated Natural ≈ 34-36	1-Side Treated 45	1-Side Treated 45	1-Side Treated 45	ASTM D2578

Thickness & Yields may vary by +/- 10%

All data represents typical values by the methods indicated and should be considered so. The information herein, is to the best of our knowledge, true, and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. No warranty is made or implied.