Transcendia
A LEADER IN CUSTOM ENGINEERED MATERIALS

ISO 9001 Certified Company
PERRY JOHNSON REGISTRARS, INC.

TRANSPET® S1

DESCRIPTION:

TRANSPET® S1 is a general purpose film which combines excellent handling characteristics with a slightly hazy appearance. It is available in specific thicknesses from 48 - 500 gauge, and is used for the full range of applications.

UL RECOGNITION: Product has been registered with Underwriters Laboratories

TECHNICAL DATA:

PROPERTY	UNIT OF MEASURE	48	75	92	142	200	300	400	500	TEST METHOD
Yield	in^2/lb	42,200	26,500	21,800	14,000	9,900	6,600	5,047	4,000	-
Yield Tensile Strength MD	psi	14,500	14,500	14,500	14,500	14,500	14,500	14,500	14,500	ASTM D882A
Yield Tensile Strength TD	psi	14,400	14,400	14,400	14,400	14,400	14,400	14,400	14,400	ASTM D882A
Elongation at Break MD	%	160	160	160	160	160	160	160	160	ASTM D882A
Elongation at Break TD	%	100	100	100	100	100	100	100	100	ASTM D882A
Tensile Strength MD	psi	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	ASTM D882A
Tensile Strength TD	psi	37,000	37,000	37,000	37,000	37,000	37,000	37,000	37,000	ASTM D882A
COF (dynamic) A-B	-	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	ASTM D1894
Density	g/cc	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	-
Shrinkage MD (190°C)	%	3.5	3.5	3.5	2.5	2.5	2.5	2.5	2.5	Unrestrained@ 190°C/5min
Shrinkage TD (190°C)		3.5	3.5	3.5	0.5	0.5	0.5	0.5	0.5	Unrestrained@ 190°C/5min
Breakdown Voltage	kV	4.8	6.1	6.4	8.3	10	12	14	16	ASTM D149-81 0.25 inch electrodes in dry air @25°C
Surface Resistivity	Ohms/sq	10^15	10^15	10^15	10^15	10^15	10^15	10^15	10^15	ASTM D257 500 V DC @ 25 C, and 50% RH
Volume Resistivity	Ohms-cm	10^17	10^17	10^17	10^17	10^17	10^17	10^17	10^17	ASTM D257 100 V DC @ 25°C, and 100 sec
Haze	%	3.1	5.3	5.6	7.5	9.0	13.8	15.6	20.7	ASTM D1003
Total Light Transmission (TLT)	%	88.5	88.0	87.0	86.5	85.5	84.5	83.0	81.0	ASTM D1003

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