

# Effect of 30 Days of UV Sunlight Exposure\* on Physical Properties of Transition Protocol Material vs. Current Tyvek®



Property	Units	Style 1073B		Style 1059B	
		Test (Average)	Control (Average)	Test (Average)	Control (Average)
Basis Weight	oz/yd <sup>2</sup>	2.22	2.22	1.93	1.91
	g/m <sup>2</sup>	75.3	75.2	65.4	64.9
Delamination	lb <sub>f</sub> /in.	0.3	0.3	0.3	0.2
	N/2.54 cm	1.2	1.2	1.2	1.0
Gurley Hill Porosity	sec/100 cc	27	25	26	22
Spencer Puncture	in.-lb <sub>f</sub> /in. <sup>2</sup>	19	9	13	10
	J/m <sup>2</sup>	3327	1576	2277	1751
Tensile Strength, MD	lb <sub>f</sub> /in.	30	22	24	20
	N/2.54 cm	133	98	107	89
Tensile Strength, CD	lb <sub>f</sub> /in.	32	29	25	23
	N/2.54 cm	142	129	111	102
Elongation, MD	%	12	9	10	9
Elongation, CD	%	12	11	11	9

\*Exposure for 30 days at an average temperature of ~33°C and an average relative humidity of ~28% in New River, Arizona.  
The TOTAL radiant energy was 767 MJ/m<sup>2</sup>; the UV component was 39 MJ/m<sup>2</sup>.

Test Methods: ASTM G147-2009; ASTM G7-2013.

Test = Transition Protocol Material

Control = Current Tyvek®