

SYN-DURABLE

TG5A

Technical Datasheet

SYN-DURABLE is a 2 sides corona treated, PE-based, white, opaque synthetic paper. It is perfect for tags, loop labels, lumber tags, steel hangers, and much more. It is resistant to water, grease, and chemicals. SYN-DURABLE is specially developed for excellent printability, reduction of die wear, and improved run speed when printing and converting. Easily printable by offset, flexo, digital, and thermal transfer.

Properties		Unit	Values							Test method	
Caliper		µm	75	120	140	190	240	300	320	350	ISO 4593
Density		g/cm ³	1,08	1,04	1,04	1,07	1,08	1,10	1,08	1,11	Internal
Weight		g/m ²	80,7	124,6	146,0	202,7	259,0	329,2	346,0	390,0	ISO 536
Average yield		m ² /kg	12,4	8,0	6,8	4,9	3,9	3,0	2,9	2,6	Internal
Tensile strength	MD	MPa	38	36	34	33	30	30	29	29	ISO 527-3
	TD		27	29	29	27	26	26	25	25	
Elongation	MD	%	500	550	550	550	550	550	550	550	
	TD		550	550	550	550	550	550	550	550	
Tensile modulus	MD	MPa	1200	1300	1300	1300	1300	1300	1300	1250	
	TD		1100	1200	1200	1200	1200	1200	1200	1100	
Surface treatment		dyn/cm	> 44							ISO 8296	
Whiteness		% (L*)	> 94							CIELAB	
Opacity		%	> 73	> 82	> 84	> 88	> 92	> 95	> 95	> 95	Internal

SYN-DURABLE contains up to 40% natural minerals as a replacement for non-renewable fossil fuels (oil).
Enhanced carbon footprint:

- Reduced CO₂ emission into the atmosphere
- Reduced TiO₂ pigment consumption
- Reduced water consumption of raw materials
- Reduced energy consumption during production
- NIR detectable

Storage and processing conditions

The product is recommended to be stored in a dry, gently heated area without ozone and direct sunlight. Stored properly, recommended storage time is no more than 1 year.

It is recommended to process the material in temperatures between 15-25° C and with a relative humidity below 70%.

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Notice: If the film is transported or stored at temperatures below +15 °C, it is recommended to season it at a temperature above 20°C for a minimum of 24 hours before it is further processed. If the film is transported or stored at temperatures below +5°C, the seasoning should be extended to a minimum of 48 hours. Observing these conditions will guarantee a correct film processing and preservation of the recommended film properties.

This document is issued to the best of our knowledge and the above information is subject to possible typing errors. Based on theoretical values. Tolerances may apply.

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