

## EXTRUDED PTFE FILMS

# MA HIGH CONTRAST

**MA HIGH CONTRAST** Laser Mark-able film is engineered to meet the most demanding requirements of the aerospace industry. **Norgard™** MA exceeds OEM industry requirements for contrast levels before and after heat aging. The **Saint-Gobain®** extrusion process provides the longest splice free/joint free lengths available for improved insulation integrity and higher physical properties that support faster tape wrapping speeds.

*\*Previously known as*

**FLUOROWRAP® MA HIGH CONTRAST**



### FEATURES AND BENEFITS

- Contrast Ratio: 65 % before heat aging, 50 % after heat aging
- Long length splice free/joint free films
- Tight thickness tolerance
- High tensile strength

### AVAILABILITY

- White Color
- Available on industry standard 3" (76 mm) ID cores in flat pad, traverse wound and StablEdge™ packages.
- Slit widths are available at 0.10" (2.5 mm) or wider
- Customized solutions available

\*Pictures shown are for illustration purpose only.



### APPLICATIONS

- Laser marked aerospace wire and cable for on-board flight control, power, communication and entertainment systems

## TYPICAL PROPERTIES

Property	Value	Unit
<b>Thickness</b>	3.0	mil
	0.076	mm
<b>Thickness Tolerance</b>	± 5	% of Nominal
<b>Density</b>	1.6	g/cm <sup>3</sup>
<b>Density Tolerance</b>	± 0.5	g/cm <sup>3</sup>
<b>Tensile Strength MD (minimum)</b>	2,900	psi
	20	MPa
<b>Tensile Strength TD (minimum)</b>	247	psi
	1.7	MPa
<b>Elongation MD (minimum)</b>	60	%
<b>Elongation TD (minimum)</b>	800	%
<b>Contrast Initial</b>	65	%
<b>Contrast after Heat Age</b>	50	%
<b>Splice Free Roll Lengths</b>	1,100	LY
	1,000	M

The values presented are typical values and should not be used for specification purposes. Contact your **Saint-Gobain** Tape Solutions representative for more information.

**IMPORTANT:** It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

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