

# TECHNICAL DATA SHEET

APL / TDS / 003 / Rev. 03

Date 15.02.2020



## ASTM E84-16: CLASS A

### PHYSICAL PROPERTIES

	TEST STANDARD	REQUIREMENT	RESULT
			4MM
Panel Thickness	...	(±) 0.2 mm	4
Weight of the Panel	...	≥ 6.8kg/m <sup>2</sup>	7.25kg/m <sup>2</sup>
Standard Width	...	(±) 2 mm	1000, 1250, 1500
Length	...	(±) 2 mm	up to 6000 mm
Skin Thickness	...	(±) 0.03 mm	0.3 mm
Alloy / Temper	ASTM B209	1100 - H16	1100- H16

### FIRE PERFORMANCE

	TEST STANDARD	REQUIREMENT	RESULT
			4MM
Surface Burning Characteristics	ASTM E84-6	(FSI) 25-0 (SDI) 450-0	FSI 20, SDI 75 Class A
Product Certificate			TBW 0300185.1

### COIL SPECIFICATION

	TEST STANDARD	REQUIREMENT	RESULT
			4MM
Tensile Strength	ASTM E8	130-165 N/mm <sup>2</sup>	130-165 N/mm <sup>2</sup>
Yield Strength	ASTM E8	Min. 117 N/mm <sup>2</sup>	Min. 117 N/mm <sup>2</sup>
Elongation	ASTM E8	Min. 1.0%	2.00%

### MECHANICAL PROPERTIES

	TEST STANDARD	REQUIREMENT	RESULT
			4MM
Peel off strength @ 180°	ASTM D 1781	≥ 10 kg/ 25mm	≥ 10 kg/ 25mm

### COATING PROPERTIES AND PERFORMANCE

	TEST STANDARD	REQUIREMENT	RESULT
			4MM
Type / Finish		PVDF / HDPE	PVDF / HDPE
Coating Thickness	ASTM D 1400	≥ 25µm	≥ 25µm
Weathering Resistance	ASTM C 481	A. Shear Strength B. Film Adhesion C. Impact Resistance	A. 3.75 Mpa (after exposure) B.1. Dry Adhesion - No removal of film B.2. Wet Adhesion - No removal of film B.3. Boiling Water - No removal of film C. Impact Resistance - No removal of film
Corrosion Resistance	AAMA 2605	A. Humidity Resistance B. Salt Spray Resistance	A. No formation of blisters B.1 Scribed - rating of 9 B.2. Unscribed - rating of 10

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### COATING PROPERTIES AND PERFORMANCE

	TEST STANDARD	REQUIREMENT	RESULT
			4MM
Abrasion Resistance	ASTM D 968	Min 40 L/mil	43.9 L/mil
Pencil Hardness	ASTM D 3363	Min HB	2H
Film Adhesion	ASTM D3359	No removal of film	No removal of film nor blistering
Impact Resistance Test 50 kg-cm	ASTM D 2794	No removal of film	No removal of film

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