

# G.AL® C330 DYNAMIC

Plate's Characteristics	
Alloy	EN AW 7021
Type of Alloy	non heat treatable
Temper	T79
Surface	six-sides sawn, <0.000591 in

Mechanical Properties <sup>1)</sup>		Typical values
Yield strength R <sub>p0,2</sub>	[ksi]	42 - 48
Ultimate tensile strength R <sub>m</sub>	[ksi]	51 - 54
Elongation A	[%]	5 - 8
Hardness HBW	[2.5/62.5]	110 - 115

Physical Properties <sup>1)</sup>		Typical values
Density	[lbs/cu in.]	0.101
Module of elasticity	[ksi·10 <sup>3</sup> ]	10.2
Electrical conductivity	[% IACS]	38 - 44
Coefficient of thermal expansion	[10 <sup>-6</sup> /°F]	12.9
Thermal conductivity	[BTU in/ft <sup>2</sup> hr°F]	865 - 1070
Specific heat capacity	[BTU/lb°F]	0.206

Processing Characteristics <sup>2)</sup>		Typical values
Dimensional stability		1 - 2
Machinability		1
Weldability (Gas / TIG / MIG / Resistance / EB)		6 / 5 / 2 / 6/ 1
Corrosion resistance (seawater / weather/ stress cracking)		4 / 3 / 3
Use at temperatures (max°F / long / short / terms) <sup>3)</sup>		248 - 284
Anodising (technical / decorative / hard-) <sup>4)</sup>		3 / 6 / 2
Polishability		1
Etching		2
Contact with food (according to EN 602)		no

Tolerances			
Thickness in [in]	Flatness [in] <sup>5)</sup>	Thickness [in]	Width & Length [in]
< 5.90		-0/ + 0.1	DIN ISO 2768-1m
> 5.90		-0 / +0.2	-0 /+0.2

Standard Stock Sizes
Other dimension upon request

Date: 12.07.2016

- 1) Typical values at room temperature.
- 2) Ratings evaluation rating from 1 (very good) to 6 (inapplicable).
- 3) Without loss of strength after cooling down.
- 4) Technical anodising only - no warranty towards optical demands.
- 5) Surface flatness for whole plates is measured with a special, 1 meter long, digital flatness ruler.

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