

Nimbus GII Material Properties

Physical		
Construction:	Double aluminium sheet, double formed	
Materials:	0.3 & 0.125mm 1050A 'O' grade aluminium	
Material Thickness:	0.43 mm	
Product Thickness:	5.25 mm	
Area Density:	1.69 kg/m ²	
Thermal		
Thermal Conductivity @ 150 °C (1)	0.27 W/mK	
Hot Plate Temperature Drop @ 150 °C: (2)	72.3 °C	
Internal Exhaust Test (3); Horizontal flat sample		
No shield:	Source: 300 °C	Receiver: 144 °C
	Source: 500 °C	Receiver: 274 °C
Nimbus GII (new):	Source: 328 °C	Receiver: 50 °C
	Source: 565 °C	Receiver: 85°C
Nimbus GII (Dirt impinged): (5)	Source: 286 °C	Receiver: 63 °C
	Source: 493 °C	Receiver: 109 °C

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Surface Emissivity @ 150 °C	New:	0.28
	Heat Aged (@ 300 °C):	0.2
	Accelerated Salt Spray: (4)	0.34
Acoustic		
Impact Noise: (6)		
0.6mm Embossed Aluminium:		101 dB(A)
Nimbus:		90.8 dB(A)
Attenuation: (7)		6.1 dB(A)
Mechanical		
Stone Impingement: (8)		6B (10 chips, 1-3mm diameter)
180 °ree Peel Strength:		1.4 Nmm
Tensile Strength (x direction (9)):		60 MPa
Tensile Strength (y direction (10)):		40 MPa
Tensile Modulus (x direction):		71.5 MPa