

Composite Material Constitution	
Epoxy Adhesive	82% ER, 18% DMA
NOMEX HC	50.6% PA, 49.4% PF
Synthetic Leather	19.8% Cotton, 35.7% PC, 39.7% PU-FF, 4.8% PBDE

Product-Level Aggregated Impacts	Seats				Linings		Bins	Floor		Total Impact per material	Average impact per material		
	i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel				
	Aluminium	8171.41	2310.09	248.59			3142.84		1550.49			#####	856.9
	Brass	662.89		1126.91								1789.8	99.4
	Cu wiring			54.74								54.7	3.0
	Stainless Steel		458.71	493.89								952.6	52.9
	Cotton							903.98				904.0	50.2
	Leather		8972.80									8972.8	498.5
	Silicone Rubber			17.46	23.83							41.3	2.3
	CFRP	38931.03										#####	2162.8
GFRP				480.13	3174.11	692.54			4346.8	241.5			
Epoxy Adhesive								5.75	5.8	0.3			
Latex							58.43		58.4	3.2			
NOMEX HC				102.05		147.19			249.2	13.8			
PA	42.75	342.04	101.19				415.67		901.6	50.1			
PC		9145.59	16.53						9162.1	509.0			
PEI				508.12					508.1	28.2			
PET Film		152.66	117.04		32.66		118.73		421.1	23.4			
PMMA				155.33					155.3	8.6			
PU Flexible Foam		2753.46							2753.5	153.0			
PU Rigid Foam		2596.47	78.79						2675.3	148.6			
PVC Film		32.10	12.84	140.22		202.25			387.4	21.5			
Total Score	8834.3	38973.8	26763.9	2268.0	1409.7	3206.8	4184.8	1496.8	1556.2				
Average Score	490.8	2165.2	1486.9	126.0	78.3	178.2	232.5	83.2	86.5				
Rank	3	1	2	6	9	5	4	8	7				

[illegible]

Land Use: Urban									Land Transformation									Water Scarcity									Depletion of Minerals & Metals									Depletion of Energy & Fuels									
Seats			Linings			Bins	Floor		Seats			Linings			Bins	Floor		Seats			Linings			Bins	Floor		Seats			Linings			Bins	Floor		Seats			Linings			Bins	Floor		
i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel	i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel	i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel	i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel	i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel	
196.98		55.69	5.99			75.76		37.38	164.98		46.64	5.02			63.45		31.30	11.17		3.16	0.34			4.29		2.12	6.51		1.84	0.20			2.50		1.23	108.29		30.61	3.29			41.65		20.55	
10.50			17.86						3.81			6.48						0.33			0.56						18.00			30.60						0.46			0.79						
			0.86									0.30									0.02									0.82								0.03							
		15.33	16.51								8.84	9.52																	12.75	13.73													0.43		
		25.27				2.44					26.95				2.04					212.48										1.97				0.16				65.99							
			0.11	0.15							0.09	0.12								0.06	0.08									0.01	0.01						0.07	0.09							
	656.40									656.40									73.49										13.27								656.40								
				4.28	28.26	6.17							4.54	30.02	6.55							5.60	36.99	8.07							0.12	0.77	0.17					13.76	90.98	19.85					
							0.09									0.10									0.69										0.01								4.61		0.10
																				1.18	1.70										0.08	0.11						3.69		5.32					
	0.01	0.08	0.02		1.05	1.51								0.78	1.13				0.85	6.76	2.00								0.00	0.01	0.00			0.01			1.83	14.66	4.34			17.82			
		8.71	0.02								3.02	0.01								10.14	0.02									0.14	0.00						106.12	0.19							
				0.48							0.17										0.56										0.01								5.90						
		3.84	2.94		0.82		2.99				3.75	2.87	0.80		2.91					0.36	0.27	0.08		0.28					0.37	0.29		0.08	0.29				4.75	3.64	1.02			3.70			
				0.36							0.14										0.20									0.01								6.70							
		11.95									6.04									34.44										1.86							101.05								
		29.93	0.91								35.48	1.08								10.53	0.32									3.27	0.10					38.06	1.16								
		0.40	0.16	1.77		2.55					0.36	0.14	1.58		2.27					0.03	0.01	0.14		0.21						0.04	0.01	0.15		0.22				0.32	0.13	1.40		2.02			
207.5	656.4	151.2	45.4	8.1	29.1	86.0	5.5	37.5	168.8	656.4	131.1	25.5	7.3	30.8	73.4	5.0	31.4	11.5	74.3	277.9	3.6	7.8	37.1	14.3	44.2	2.1	24.5	13.3	22.3	45.8	0.4	0.9	3.0	0.5	1.2	108.8	658.2	361.6	13.6	31.5	92.0	68.8	26.5	20.6	
16.9%	53.5%	12.3%	3.7%	0.7%	2.4%	7.0%	0.5%	3.1%	14.9%	58.1%	11.6%	2.3%	0.6%	2.7%	6.5%	0.4%	2.8%	2.4%	15.7%	58.8%	0.8%	1.6%	7.8%	3.0%	9.3%	0.5%	21.9%	11.9%	19.9%	41.0%	0.3%	0.8%	2.7%	0.4%	1.1%	7.9%	47.6%	26.2%	1.0%	2.3%	6.7%	5.0%	1.9%	1.5%	
2	1	3	5	8	7	4	9	6	2	1	3	7	8	6	4	9	5	6	2	1	8	7	4	5	3	9	2	4	3	1	9	7	5	8	6	3	1	2	9	6	4	5	7	8	