



CONFOR™ AC Foams

Product Description

CONFOR™ AC foams dissipate impact energy, instead of hitting bottom and returning the energy to the impacting body. CONFOR AC foam is engineered for the aircraft market to be in compliance with FAR 25.853(a) Appendix F Part I (a)(1)(ii)(12 sec).



TYPICAL PROPERTIES	CF-40AC	CF-42AC	CF-45AC	CF-47AC
Density, kg/m³ (lb/ft³) ASTM D3574	96 (6.0)	96 (6.0)	96 (6.0)	96 (6.0)
FAR 25.853(a) Appendix F @ 0.5" Part I (a)(1)(ii)(12 sec)	Meets	Meets	Meets	Meets
FMVSS-302	Meets	Meets	Meets	Meets
California Flame 117-2013	Passes	Passes	Passes	Passes
Compression Set (%) ASTM D3574 22 hours at 22°C (72°F) Compressed 50%	<1	<1	<1	<1
Indentation Force Deflection ASTM D3574 Test B1 (modified) 25% Deflection for 12" x 12" x 2" sample: 22°C (72°F) at 50% Relative Humidity N (lbf)	97 (22)	155 (35)	213 (48)	280 (63)
Tensile Strength kPa (psi) ASTM D3574 51 mm/min (20 in/min)	57 (8.3)	110 (16)	145 (21)	234 (34)
Tear Strength kN/m (lbf/in) ASTM D3574 51 cm/min (20 in/min) at 22°C (72°F)	0.32 (1.8)	0.53 (3.0)	0.74 (4.2)	1.2 (6.7)
Compression Load Deflection ASTM D3574 Test C *Modified				
10% kPa (psi)	1.6 (0.23)	2.5 (0.36)	3.7 (0.53)	6.9 (1.0)
20% kPa (psi)	1.9 (0.27)	3.0 (0.44)	4.4 (0.64)	8.3 (1.2)
30% kPa (psi)	2.2 (0.32)	3.4 (0.50)	4.8 (0.70)	8.3 (1.2)
40% kPa (psi)	2.6 (0.37)	4.0 (0.58)	5.6 (0.81)	9.7 (1.4)
50% kPa (psi)	3.2 (0.47)	5.1 (0.74)	6.9 (1.0)	12.0 (1.7)
60% kPa (psi)	4.8 (0.69)	7.6 (1.1)	10.0 (1.5)	17.0 (2.5)
70% kPa (psi)	9.0 (1.3)	15.0 (2.1)	19.0 (2.8)	33.0 (4.8)
80% kPa (psi)	26.0 (4.0)	43.0 (6.3)	59.0 (8.6)	103.0 (15)
RoHS Directive 2015/863/EU Compliant	Yes	Yes	Yes	Yes

The above technical information and data should be considered representative or typical only and should not be used for specification purposes.



Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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