



Cushioning and impact absorbing foam

Typical properties for Confor foam

Property and test method	Confor foam - Yellow		Confor foam - Pink		Confor foam - Blue		Confor foam - Green	
	CF-40M	CF-40AC	CF-42M	CF-42AC	CF-45M	CF-45AC	CF-47M	CF-47AC
Density nominal kg/ m³ (lb/ ft³)								
ASTM D3574	96 (6.0)	96 (6.0)	96 (6.0)	96 (6.0)	96 (6.0)	96 (6.0)	96 (6.0)	96 (6.0)
Flammability								
UL 94 (Minimum thickness stated)	Listed HBF @ 3mm	Meets HF-1 @ 3mm	Listed HBF @ 3mm	Meets HF-1 @ 3mm	Listed HBF @ 3mm	Meets HF-1 @ 3mm	Listed HBF @ 3mm	Meets HF-1 @ 3mm
FMVSS-302	Meets	Meets	Meets	Meets	Meets	Meets	Meets	Meets
FAR 25.853(a) Appendix F Part I (a)(1)(ii)(12 sec)	No	Meets	No	Meets	No	Meets	No	Meets
CAL 117	No	Meets	No	Meets	No	Meets	No	Meets
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ball rebound %								
ASTM D3574	<1	1	<1	1.3	<1	1.9	<1	2.2
Thermal conductivity - K value								
ASTM C177 W/ m* K (BTU in/ hr ft² F)	0.040 (0.28)	0.040 (0.28)	0.040 (0.28)	0.040 (0.28)	0.040 (0.28)	0.040 (0.28)	0.040 (0.28)	0.040 (0.28)
Compression set (%)								
22 hr @ 22°C (72°F) Compressed 50% ASTM D3574.1.2	1.2	<1	1.0	<1	<1.0	<1	<1.0	<1
Indentation force deflection								
ASTM D3574 Test B.1 Modified 25% Deflection for 12"x12"x2" sample 22°C (72°F) @ 50% Relative Humidity N (lbf)	97 (22)	97 (22)	155 (35)	155 (35)	213 (48)	213 (48)	280 (63)	280 (63)
Tensile strength kPa (psi)								
ASTM D3574 5.1 mm/ min (20 in/ min)	48 (7.0)	51 (7.4)	83 (12)	83 (12)	117 (17)	145 (21)	152 (22)	193 (28)
Tear strength kN/ m (lbf/ in)								
ASTM D3574 5.1 cm/ min (20 in/ min) @ 22°C (72°F)	0.29 (1.7)	0.29 (1.7)	0.47 (2.7)	0.45 (2.6)	0.64 (3.7)	0.73 (4.2)	0.82 (4.7)	0.98 (5.6)
Compression load deflection								
Force @ 10% Compression kPa (psi)	1.4 (0.20)	1.5 (0.21)	2.1 (0.31)	2.2 (0.31)	3.1 (0.44)	3.9 (0.57)	3.9 (0.57)	4.8 (0.69)
Force @ 20% Compression kPa (psi)	1.8 (0.26)	2.0 (0.28)	2.8 (0.40)	2.9 (0.42)	4.2 (0.61)	5.0 (0.72)	5.6 (0.82)	6.9 (1.0)
Force @ 30% Compression kPa (psi)	2.0 (0.29)	2.3 (0.33)	3.0 (0.44)	3.2 (0.47)	4.5 (0.66)	5.3 (0.76)	5.9 (0.86)	7.2 (1.0)
Force @ 40% Compression kPa (psi)	2.3 (0.33)	2.6 (0.38)	3.4 (0.50)	3.7 (0.54)	5.0 (0.73)	5.9 (0.85)	6.5 (0.94)	7.9 (1.1)
Force @ 50% Compression kPa (psi)	2.9 (0.42)	3.2 (0.47)	4.1 (0.59)	4.4 (0.64)	5.9 (0.86)	7.0 (1.0)	7.6 (1.1)	9.3 (1.3)
Force @ 60% Compression kPa (psi)	3.5 (0.51)	4.4 (0.63)	5.4 (0.78)	5.9 (0.85)	7.7 (1.1)	9.1 (1.3)	9.8 (1.4)	12 (1.7)
Force @ 70% Compression kPa (psi)	6.0 (0.87)	7.5 (1.1)	8.8 (1.3)	9.8 (1.4)	12 (1.8)	15 (2.1)	16 (2.3)	20 (2.8)
Force @ 80% Compression kPa (psi)	16 (2.3)	20 (2.9)	23 (3.3)	25 (3.6)	32 (4.6)	36 (5.3)	40 (5.7)	49 (7.1)

ASTM D 3574C* Modified* 12.7mm thick specimen compressed at a rate of 5.1 mm/ min

The data listed in this materials summary 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 particular purpose.

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