

# CONFOR™ Foam Family



The standard CONFOR product line is being replaced with two updated versions. Both the new CONFOR M foam and the CONFOR AC foam have the same slow recovery attributes as our current standard foams. The CONFOR M and CONFOR AC foams are both RoHS Compliant. Additionally, the CONFOR AC foam meets CAL 117 and FAR 25.253 (a) requirements.

## CONFOR CF-40 Foam Series

Typical Property	Test Method	CF-40M	CF-40AC	CF-40
Density Nominal kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	ASTM D3574	96 (6.0)	96 (6.0)	96 (6.0)
Flammability	UL 94 (Minimum thickness stated) FMVSS-302 FAR 25.853(a) Appendix F Part I (a)(1)(ii)(12 sec) CAL 117 RoHS Compliant	Listed HBF @ 3mm Meets No No Yes	Meets HF-1 @ 3 mm Meets Meets Meets Yes	Listed HBF @ 6mm Meets Meets Meets No
Ball Rebound %	ASTM D3574	<1	1	<1
Thermal Conductivity -- K Value	ASTM C177 W/m*K (BTU in/hr ft <sup>2</sup> F)	.040 (0.28)	0.040 (0.28)	0.040 (0.28)
Compression Set (%) 22 hr @ 22C (72F) Compressed 50%	ASTM D3574	1.2	<1	<1
Indentation Force Deflection	ASTM D3574 Test B1 Modified 25% Deflection for 12"x12"x2" sample 22C (72F) @ 50% Relative Humidity N (lbf)	97 (22)	97 (22)	97 (22)
Tensile Strength kPa (psi)	ASTM D3574 5.1 mm/min (20 in/min)	48 (7.0)	51 (7.4)	55 (8)
Tear Strength kN/m (lbf/in)	ASTM D3574 51 cm/min (20 in/min) @ 22C (72F)	0.29 (1.7)	0.29 (1.7)	0.33 (1.9)
Compression Load Deflection	ASTM D 3574C *Modified * 12.7mm thick specimen compressed at a rate of 5.1 mm/min	1.4 (0.20) 1.8 (0.26) 2.0 (0.29) 2.3 (0.33) 2.9 (0.42) 3.5 (0.51) 6.0 (0.87) 16 (2.3)	1.5 (0.21) 2.0 (0.28) 2.3 (0.33) 2.6 (0.38) 3.2 (0.47) 4.4 (0.63) 7.5 (1.1) 20 (2.9)	1.4 (0.20) 1.8 (0.26) 1.9 (0.28) 2.2 (0.32) 2.6 (0.37) 3.2 (0.47) 5.1 (0.74) 12 (1.8)

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# CONFOR™ Foam Family

## CONFOR CF-42 Foam Series

Typical Property	Test Method	CF-42M	CF-42AC	CF-42
Density Nominal kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	ASTM D3574	96 (6.0)	96 (6.0)	96 (6.0)
Flammability	UL 94 (Minimum thickness stated) FMVSS-302 FAR 25.853(a) Appendix F Part I (a)(1)(ii)(12 sec) CAL 117 RoHS Compliant	Listed HBF @ 3mm Meets No No Yes	Meets HF-1 @ 3 mm Meets Meets Meets Yes	Listed HBF @ 6mm Meets Meets Meets No
Ball Rebound %	ASTM D3574	<1	1.3	<1
Thermal Conductivity -- K Value	ASTM C177 W/m*K (BTU in/hr ft <sup>2</sup> F)	.040 (0.28)	0.040 (0.28)	0.040 (0.28)
Compression Set (%) 22 hr @ 22C (72F) Compressed 50%	ASTM D3574	1.0	< 1	< 1.0
Indentation Force Deflection	ASTM D3574 Test B1 Modified 25% Deflection for 12"x12"x2" sample 22C (72F) @ 50% Relative Humidity N (lbf)	155 (35)	155 (35)	115 (35)
Tensile Strength kPa (psi)	ASTM D3574 5.1 mm/min (20 in/min)	83 (12)	83 (12)	97 (14)
Tear Strength kN/m (lbf/in)	ASTM D3574 51 cm/min (20 in/min) @ 22C (72F)	0.47 (2.7)	0.45 (2.6)	0.52 (3)
Compression Load Deflection	ASTM D 3574C *Modified			
Force @ 10% Compression kPa (psi)	* 12.7mm thick specimen compressed at a rate of 5.1 mm/min	2.1 (0.31)	2.2 (0.31)	2.3 (0.33)
Force @ 20% Compression kPa (psi)		2.8 (0.40)	2.9 (0.42)	3.0 (0.44)
Force @ 30% Compression kPa (psi)		3.0 (0.44)	3.2 (0.47)	3.2 (0.47)
Force @ 40% Compression kPa (psi)		3.4 (0.50)	3.7 (0.54)	3.6 (0.52)
Force @ 50% Compression kPa (psi)		4.1 (0.59)	4.4 (0.64)	4.2 (0.61)
Force @ 60% Compression kPa (psi)		5.4 (0.78)	5.9 (0.85)	5.4 (0.78)
Force @ 70% Compression kPa (psi)		8.8 (1.3)	9.8 (1.4)	8.3 (1.2)
Force @ 80% Compression kPa (psi)		23 (3.3)	25 (3.6)	20 (2.9)

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# CONFOR™ Foam Family

## CONFOR CF-45 Foam Series

Typical Property	Test Method	CF-45M	CF-45AC	CF-45
<b>Density Nominal</b> kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	ASTM D3574	96 (6.0)	96 (6.0)	96 (6.0)
<b>Flammability</b>	UL 94 (Minimum thickness stated) FMVSS-302 FAR 25.853(a) Appendix F Part I (a)(1)(ii)(12 sec) CAL 117 RoHS Compliant	Listed HBF @ 3mm Meets No No Yes	Meets HF-1 @ 3 mm Meets Meets Meets Yes	Listed HBF @ 6mm Meets Meets Meets No
<b>Ball Rebound %</b>	ASTM D3574	<1	1.9	<1
<b>Thermal Conductivity -- K Value</b>	ASTM C177 W/m*K (BTU in/hr ft <sup>2</sup> F)	.040 (0.28)	0.040 (0.28)	0.040 (0.28)
<b>Compression Set (%)</b> 22 hr @ 22C (72F) Compressed 50%	ASTM D3574	< 1.0	< 1	< 1.0
<b>Indentation Force Deflection</b>	ASTM D3574 Test B1 Modified 25% Deflection for 12"x12"x2" sample 22C (72F) @ 50% Relative Humidity N (lbf)	213 (48)	213 (48)	214 (48)
<b>Tensile Strength</b> kPa (psi)	ASTM D3574 5.1 mm/min (20 in/min)	117 (17)	145 (21)	131 (19)
<b>Tear Strength</b> kN/m (lbf/in)	ASTM D3574 51 cm/min (20 in/min) @ 22C (72F)	0.64 (3.7)	0.73 (4.2)	0.70 (4)
<b>Compression Load Deflection</b>	ASTM D 3574C *Modified * 12.7mm thick specimen compressed at a rate of 5.1 mm/min	3.1 (0.44) 4.2 (0.61) 4.5 (0.66) 5.0 (0.73) 5.9 (0.86) 7.7 (1.1) 12 (1.8) 32 (4.6)	3.9 (0.57) 5.0 (0.72) 5.3 (0.76) 5.9 (0.85) 7.0 (1.0) 9.1 (1.3) 15 (2.1) 36 (5.3)	3.2 (0.46) 4.4 (0.64) 4.7 (0.68) 5.2 (0.75) 6.0 (0.87) 7.6 (1.1) 12 (1.7) 28 (4.1)

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# CONFOR™ Foam Family

## CONFOR CF-47 Foam Series

Typical Properties	Test Method	CF-47M	CF-47AC	CF-47
<b>Density Nominal</b> kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	ASTM D3574	96 (6.0)	96 (6.0)	96 (6.0)
<b>Flammability</b>	UL 94 (Minimum thickness stated) FMVSS-302 FAR 25.853(a) Appendix F Part I (a)(1)(ii)(12 sec) CAL 117 RoHS Compliant	Listed HBF @ 3mm Meets No No Yes	Meets HF-1 @ 3 mm Meets Meets Meets Yes	Listed HBF @ 6mm Meets Meets Meets No
<b>Ball Rebound %</b>	ASTM D3574	<1	2.2	<1
<b>Thermal Conductivity</b> – K Value	ASTM C177 W/m*K (BTU in/hr ft <sup>2</sup> F)	.040 (0.28)	0.040 (0.28)	0.040 (0.28)
<b>Compression Set (%)</b> 22 hr @ 22C (72F) Compressed 50%	ASTM D3574	< 1.0	< 1	< 1.0
<b>Indentation Force Deflection</b>	ASTM D3574 Test B1 Modified 25% Deflection for 12"x12"x2" sample 22C (72F) @ 50% Relative Humidity N (lbf)	280 (63)	280 (63)	280 (63)
<b>Tensile Strength</b> kPa (psi)	ASTM D3574 5.1 mm/min (20 in/min)	152 (22)	193 (28)	172 (25)
<b>Tear Strength</b> kN/m (lbf/in)	ASTM D3574 51 cm/min (20 in/min) @ 22C (72F)	0.82 (4.7)	0.98 (5.6)	0.91 (5.2)
<b>Compression Load Deflection</b>	ASTM D 3574C *Modified * 12.7mm thick specimen compressed at a rate of 5.1 mm/min			
Force @ 10% Compression kPa (psi)		3.9 (0.57)	4.8 (0.69)	5.3 (0.77)
Force @ 20% Compression kPa (psi)		5.6 (0.82)	6.9 (1.0)	6.9 (1.0)
Force @ 30% Compression kPa (psi)		5.9 (0.86)	7.2 (1.0)	7.9 (1.1)
Force @ 40% Compression kPa (psi)		6.5 (0.94)	7.9 (1.1)	7.9 (1.1)
Force @ 50% Compression kPa (psi)		7.6 (1.1)	9.3 (1.3)	9.3 (1.3)
Force @ 60% Compression kPa (psi)		9.8 (1.4)	12 (1.7)	12 (1.7)
Force @ 70% Compression kPa (psi)		16 (2.3)	20 (2.8)	18 (2.6)
Force @ 80% Compression kPa (psi)		40 (5.7)	49 (7.1)	46 (6.6)

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Thermal Acoustic Systems

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