



CONFOR™ EG FOAMS

Material Summary Sheet 50



Offering solutions for a wide range of applications such as...

- Headphones
- AR/VR Headsets
- Smartphone & Tablet
- Laptop/Notebook

CONFOR™ EG Foams

- Highly compliant shock and energy absorbing, strain-rate sensitive, open-cell foam products
- Available in a range of stiffnesses and shapes
- Non-halogenated
- RoHS compliant

TYPICAL PROPERTIES					
PROPERTY	CFNT-EGS	CF-40EG	CF-42EG	CF-45EG	CF-47EG
Density Nominal kg/m³ (lb/ft³) ASTM D3574	83 (5.18)	96.1 (6)	96.1 (6)	96.1 (6)	96.1 (6)
Flammability UL 94	Meets HBF	Listed HF-1 @ 1.5mm – 2.2mm	Listed HF-1 @ 2.1mm – 2.3mm	Listed HF-1 @ 0.8mm – 2.1mm	Listed HF-1 @ 2.0mm – 2.2mm
Ball Rebound % ASTM D3574	<1	<1	<1	<1	<1
Thermal Conductivity – K Value ASTM C518 W/m*K (BTU in/hr ft ² F)	.0039 (0.27)	.0039 (0.27)	.0040 (0.28)	.0040 (0.28)	.0039 (0.27)
Compression Set (%) ASTM D357 22hr @ 22C (72 F), Compressed 50%	<1	<1	<1	<1	<1
Indentation Force Deflection ASTM D3574 Test B1 Modified 25% Deflection for 12" x 12" x 2" sample 22C (72F) @ 50% Relative Humidity (lbf)	10-17	15-28	29-41	42-55	56-70
Tensile Strength kPa (psi) ASTM D3574 5.1mm/min (20 in/min)	48 (6.7)	53 (7.7)	90 (13)	129 (19)	229 (33)
Tear Strength kN/m (lbf/in) ASTM D3574 5.1 mm/min (20 in/min) @ 22C (72F)	0.28 (1.6)	0.32 (1.8)	0.56 (3.2)	0.63 (3.6)	1.1 (6.5)
Tg (Peak Loss Modulus), °C DMA, 10 Hz & 0.3 amplitude, 30% compression	-2.5	2.7	6.7	14	19
Peak Tan Delta @ Temp C (F) DMA, 10 Hz & 0.3 amplitude, 30% compression	1.34 @ 22 C	1.33 @ 26 C	1.26 @ 30 C	1.17 @ 39 C	1.07 @ 46 C
Compression Load Deflection ASTM D 3574C Modified* Force @ 10% Compression kPa (psi) Force @ 20% Compression kPa (psi) Force @ 30% Compression kPa (psi) Force @ 40% Compression kPa (psi) Force @ 50% Compression kPa (psi) Force @ 60% Compression kPa (psi) Force @ 70% Compression kPa (psi) Force @ 80% Compression kPa (psi)	0.83 (0.12) 1.1 (0.16) 1.2 (0.18) 1.5 (0.22) 1.8 (0.26) 2.4 (0.35) 3.9 (0.57) 9.0 (1.3)	1.65 (0.24) 1.86 (0.27) 2.07 (0.30) 2.41 (0.35) 3.03 (0.44) 4.21 (0.61) 7.58 (1.1) 21.4 (3.09)	2.83 (0.41) 2.90 (0.42) 3.31 (0.48) 3.93 (0.57) 4.96 (0.72) 6.89 (1.04) 13.1 (1.89) 37.9 (5.5)	3.03 (0.44) 3.59 (0.52) 4.0 (0.58) 4.76 (0.69) 6.0 (0.87) 8.96 (1.25) 16.34 (2.37) 51.0 (7.42)	6.89 (1.00) 6.89 (1.00) 7.58 (1.08) 8.96 (1.27) 11.03 (1.60) 15.86 (2.29) 28.96 (4.19) 89.63 (13.0)
RoHS Compliant	Yes	Yes	Yes	Yes	Yes
Halogen Free**	Yes	Yes	Yes	Yes	Yes

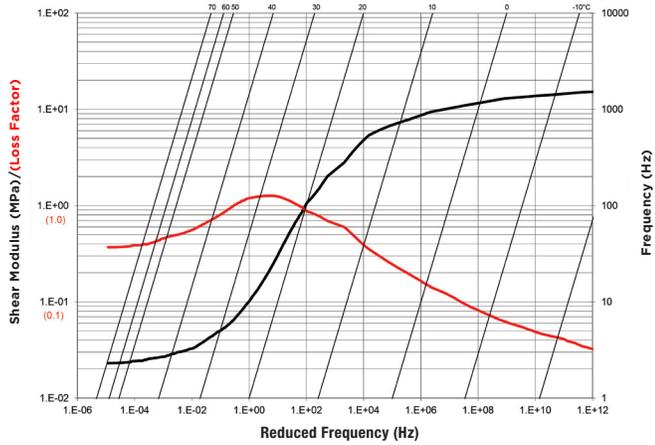
The above technical information and data should be considered representative or typical only and should not be used for specification purpose.

*12.7mm thick specimen compressed at a rate of 5.1 mm/min

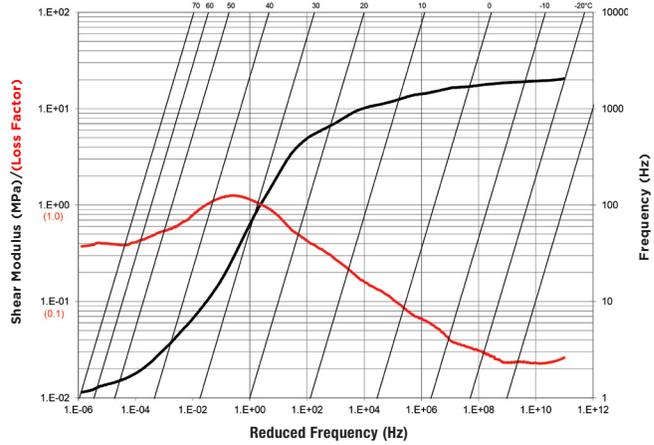
**Halogen-free per IEC 61249-2-21.



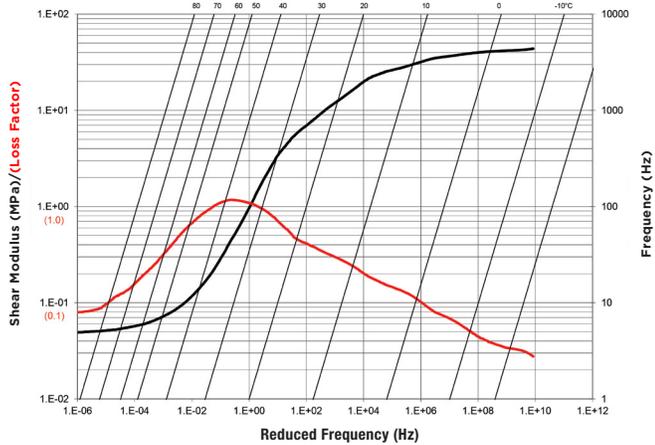
CF-40EG



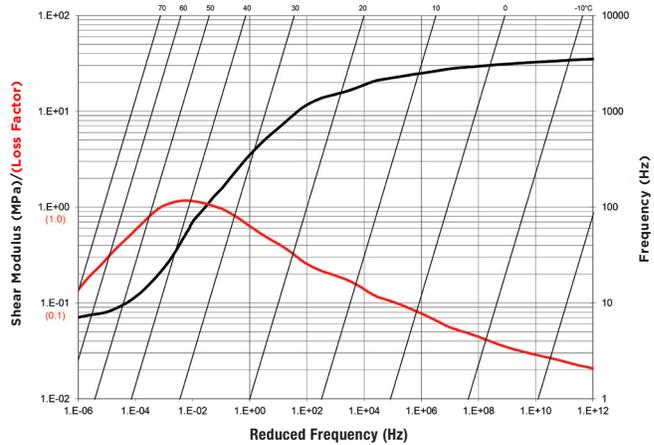
CF-42EG



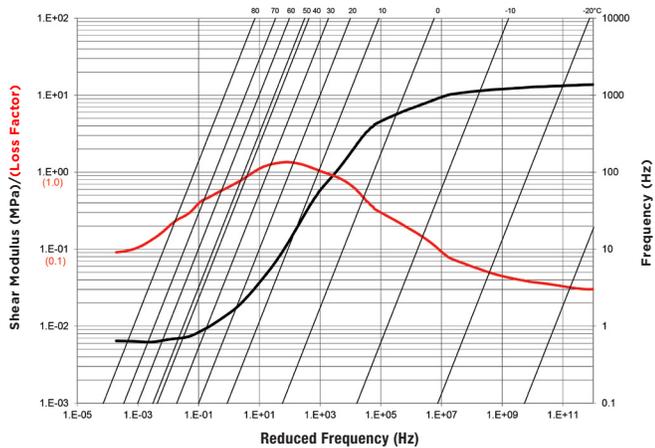
CF-45EG



CF-47EG



CFNT-EGS



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