



CONFOR™ EG FOAMS

Material Summary Sheet 50



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

- Lab and office equipment
- Computers and peripherals
- Industrial equipment



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 @ 2mm | Listed HF-1 @ 2mm | Listed HF-1 @ 2mm | Listed HF-1 @ 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 |

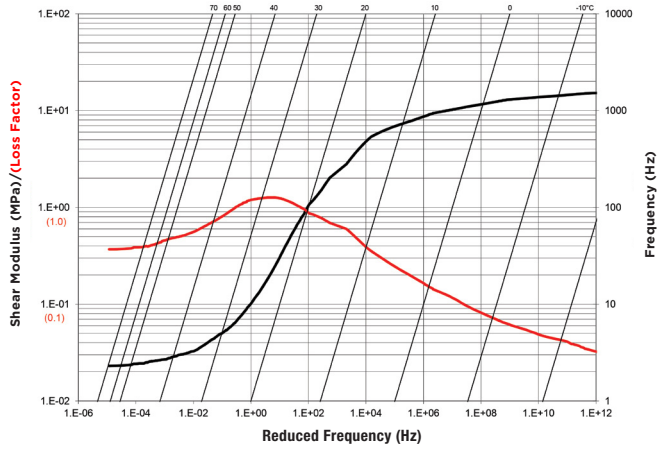
The above technical information and data should be considered representative or typical only and should not be used for specification purpose.

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

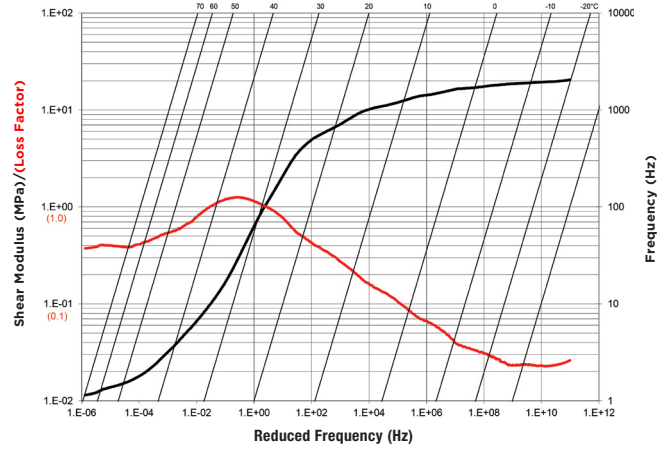
**Halogen-free per IEC 61249-2-21.



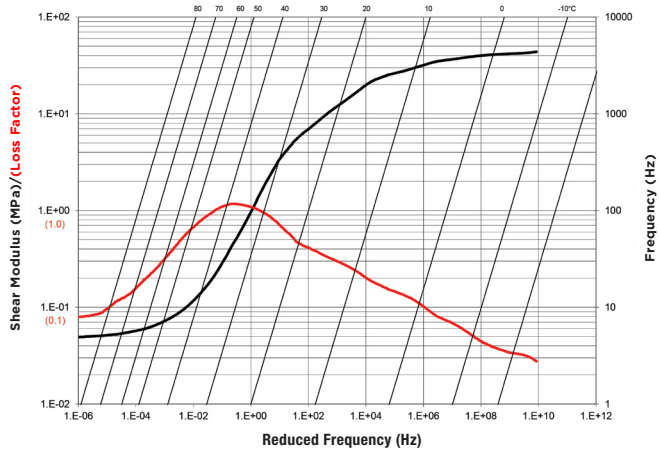
CF-40EG



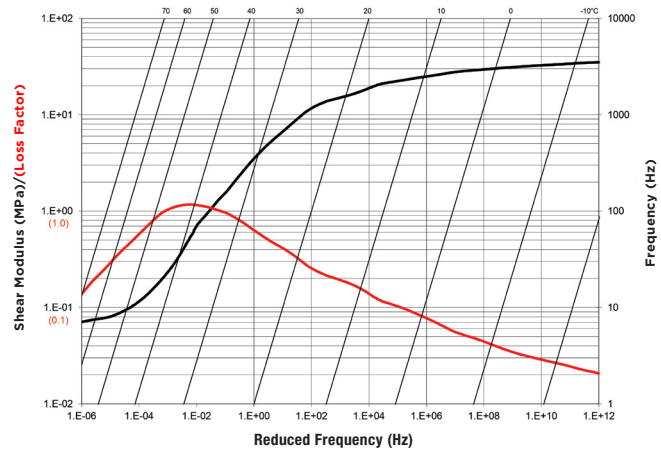
CF-42EG



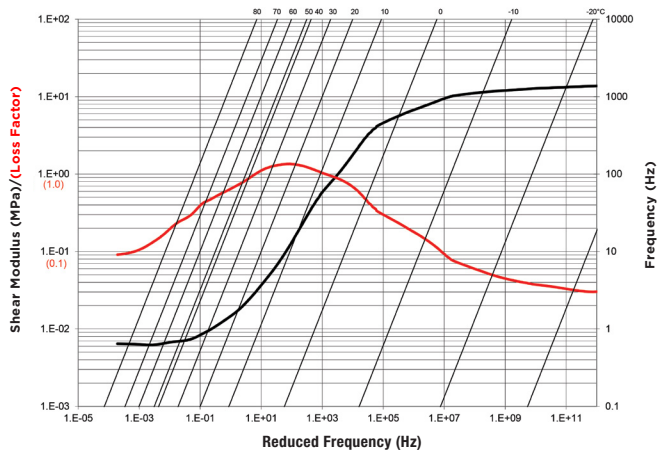
CF-45EG



CF-47EG



CFNT-EGS



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