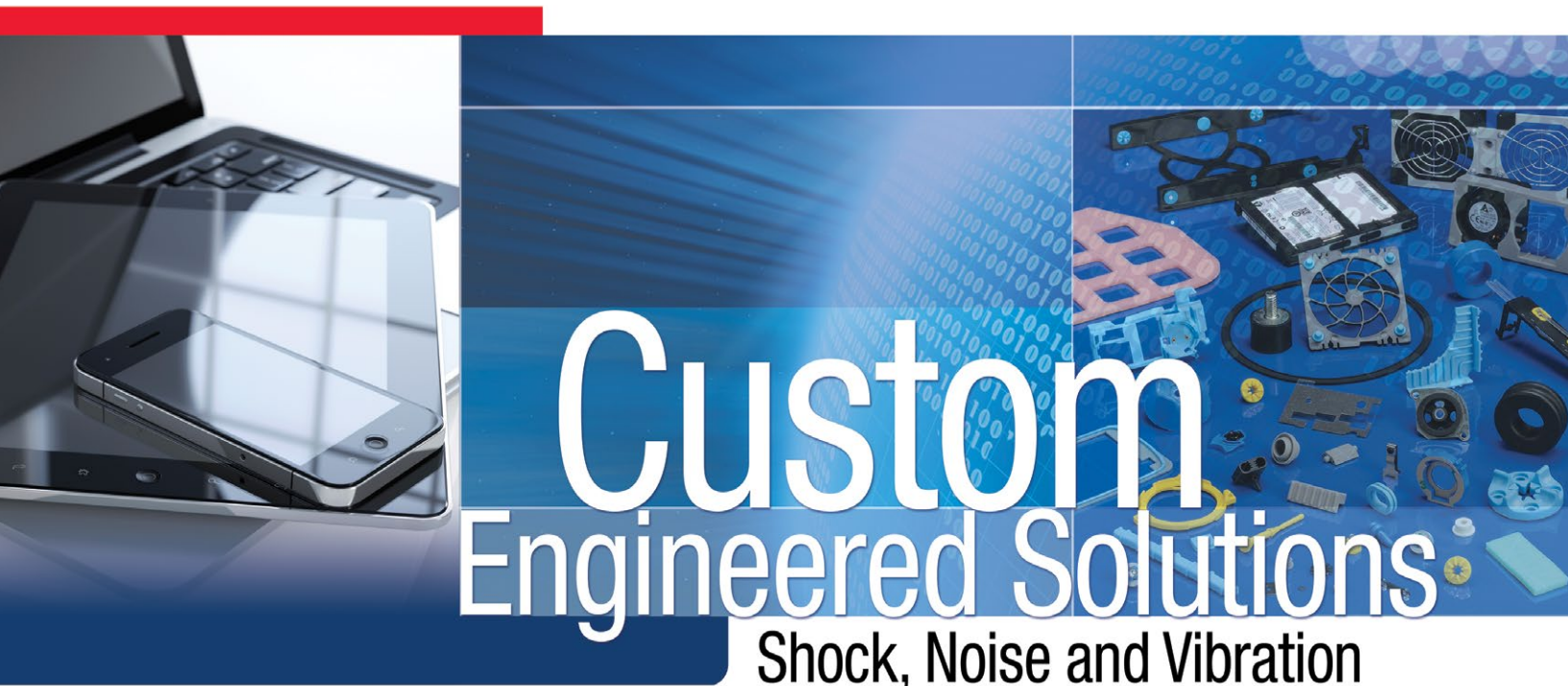




Shock, Noise and Vibration Solutions

Electronic Materials Brochure



Custom Engineered Solutions

Shock, Noise and Vibration





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ELASTOMERS

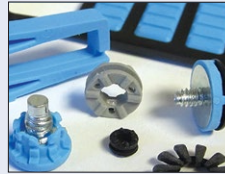
ISODAMP™ C-6000 MATERIALS

- Highly damped TPV for noise, shock and vibration control
- RoHS compliant
- JIG -101 compliant
- Halogen-free*
- Available in durometers from 40 to 60 Type A
- Available in V-1 and V-0 formulations



ISODAMP™ C-8000 MATERIALS

- Highly damped thermoplastic molded products for noise, shock and vibration control
- RoHS compliant
- JIG-101 compliant
- Halogen-free*
- Available in durometers from 40 to 88 Type A
- Listed UL 94 V-0 flame rating



ISOLOSS™ SL MATERIALS

- Highly damped thermoset molded products for noise, shock and vibration control
- RoHS compliant
- JIG-101 compliant
- Halogen-free*
- Available in durometers from 20 to 60 Type A
- Available in listed UL 94 and non-listed formulations



FOAMS

CONFOR™ EG FOAMS

- Highly compliant shock and energy absorbing, strain-rate sensitive, open-cell foam products
- Listed UL 94 HF-1 flame rating
- RoHS compliant
- JIG-101 compliant
- Halogen-free*
- Available in a range of stiffnesses and parts



ISOLOSS™ LS MATERIALS

- Low compression set
- High energy absorption
- Effective vibration isolation
- Low outgassing
- High internal strength
- Chemical resistance
- Flame resistance
- Broad service temperature range



CONFOR™ SC FOAMS

- Small cell, slow-recovery foam that can be easily compressed up to 95% for shock protection and gasketing in tight spaces.
- Low compression set
- Highly conformable gap filler
- Listed HF-1 @ 0.5mm-3.0mm
- RoHS Compliant
- JIG-101 Compliant
- Halogen-free*



CONFOR™ TF FOAMS

- Low compression set
- Highly conformable gap filler
- RoHS Compliant
- Halogen-free*



E-A-R™ ISODAMP™ elastomers provide high-performance shock, vibration, and noise control. These highly damped materials exhibit extremely low rebound characteristics, ensuring very low amplification at resonance and rapid settling to equilibrium after shock or vibration input. Standard configurations include isolation grommets (with or without metal inserts), bushings & rings, fan mounts, and more.

ISODAMP™ C-6000 Series elastomers are halogen-free, and exhibit improved temperature and abrasion characteristics as compared to TPEs for use in rugged electronic devices. C-6000 materials are available with a loss factor up to ~1.0 and multiple Type A durometers.

Typical Properties

Property	C-6040	C-6050	C-6060
Description	Thermoplastic Vulcanizate	Thermoplastic Vulcanizate	Thermoplastic Vulcanizate
Hardness, ASTM D2240 (Type A, 15 sec, 1 kg, 23C (72F))	40	50	60
Compression Force Deflection kPa (psi) ASTM D575 @ 0.51cm/min (0.2 in/min)			
10%	270 (39)	410 (59)	580 (84)
20%	500 (73)	750 (110)	1100 (150)
30%	800 (120)	1200 (170)	1600 (240)
Compression Set ASTM D395, Method B			
25% @ 22C (72F)	20%	20%	25%
25% @ 70C (158F)	50%	50%	50%
Abrasion H22 wheels, 1000 cycles, 1000 grams load weight ASTM D3390, weight loss per revolution (mg)	0.6 mg	0.3 mg	0.5 mg
Tensile Strength kPa (psi) ASTM D412	400	550	700
Tear C kN/m (ppi) ASTM D624	90	110	130
Temperature Range Peak Damping Performance Temperature Range C			
@ 10 Hz	-19 to 14	-17 to 24	-12 to 29
@ 100 Hz	-15 to 26	-12 to 36	-8 to 38
@ 1000 Hz	-10 to 38	-8 to 46	-3 to 48

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

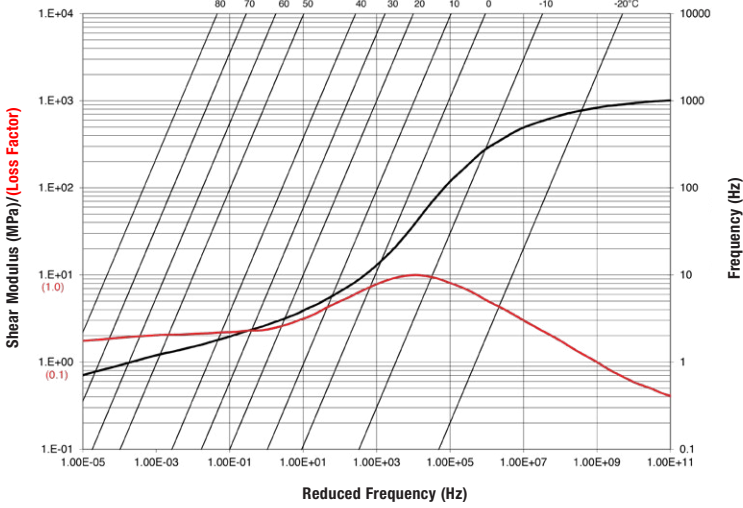
Environmental Properties

Property	C-6040	C-6050	C-6060
RoHS Compliant	Yes	Yes	Yes
Flammability UL 94 mm	Listed V-1 @ 6	Listed V-0 @ 4.5	Listed V-0 @ 4.0
Halogen-free*	Yes	Yes	Yes

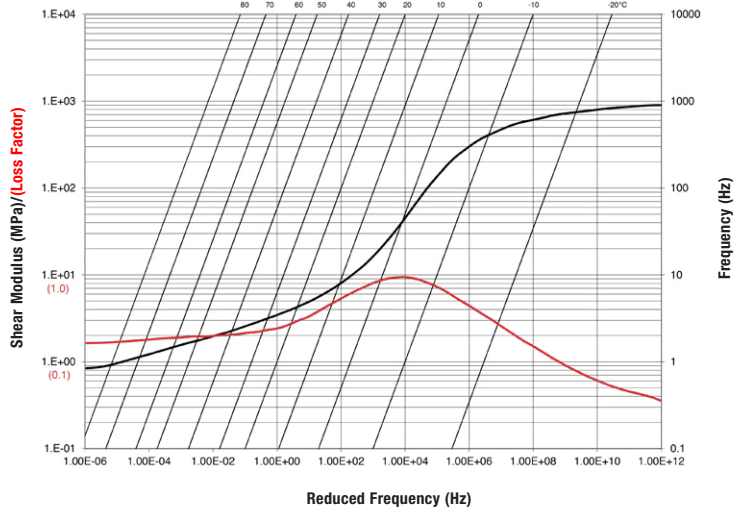
*Halogen-free per IEC 61249-2-21



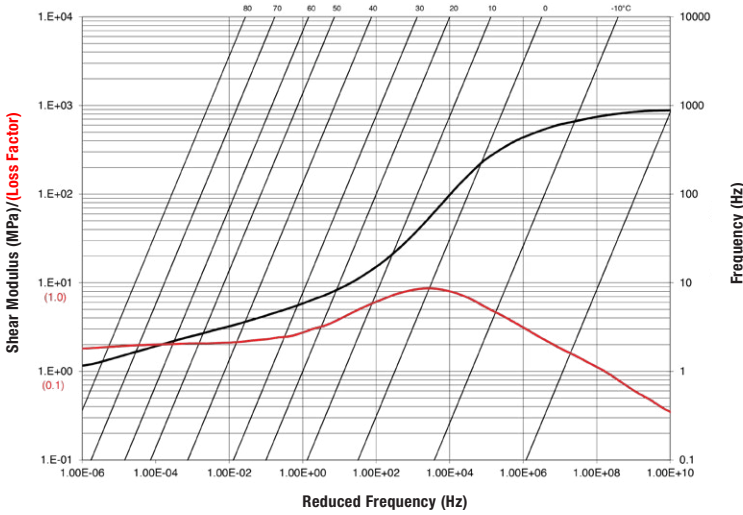
ISODAMP C-6040



ISODAMP C-6050



ISODAMP C-6060



ISODAMP™ C-8000 Molding Materials

ISODAMP™ elastomers provide high-performance shock, vibration, and noise control. These highly damped materials exhibit extremely low rebound characteristics, ensuring very low amplification at resonance and rapid settling to equilibrium after shock or vibration input. Standard configurations include isolation grommets (with or without metal inserts), bushings & rings, fan mounts, and more.

ISODAMP™ C-8000 Series elastomers are halogen-free for use in electronic devices and have a loss factor up to ~1.3. Multiple Type A durometers are available.

Typical Properties

Property	C-8012	C-8002	C-8070	C-8130
Description	TPE Solid Thermoplastic	TPE Solid Thermoplastic	TPE Solid Thermoplastic	TPE Solid Thermoplastic
Hardness ASTM D2240 Type A Durometer 23C (73F) 15 sec impact	40	51	70	88
Compression Load Deflection kPa (psi) ASTM D575 at 0.51 cm/min (0.2 in/min)				
10% kPa (psi)	324 (47)	455 (66)	951 (138)	3619 (525)
20% kPa (psi)	627 (91)	883 (128)	1799 (261)	6494 (942)
30% kPa (psi)	958 (139)	1358 (197)	2799 (406)	9087 (1318)
Compression Set (%) ASTM D395 Method B 22 hr at 22C (72F) 22 hr at 70C (158F)	12 100	15 99	15 98	35 90
Tensile Strength kPa (psi) ASTM D412	3309 (480)	5309 (770)	10059 (1459)	11279 (1636)
Tear Strength kN/m (lbf/in) ASTM D624	18 (100)	25 (141)	50 (285)	72 (410)
Temperature Range Peak Damping Performance Temperature Range C				
@ 10 Hz	-26 to 22	-6 to 37	4 to 42	5 to 27
@ 100 Hz	-19 to 35	-2 to 50	8 to 53	10 to 34
@ 1000 Hz	-13 to 55	4 to 71	14 to 68	16 to 41

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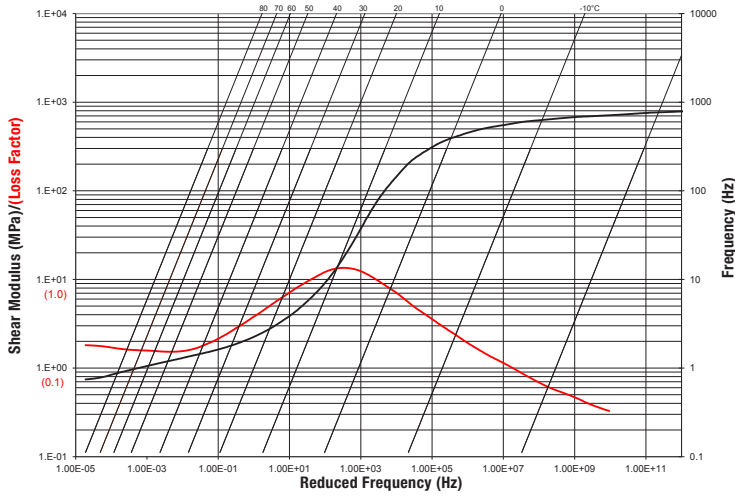
Environmental Properties

Property	C-8012	C-8002	C-8070	C-8130
Flammability UL 94 mm (in)	Listed V-0 @ 6 (0.24)	Listed V-0 @ 3.4 (0.13)	Listed V-0 @ 3.0	Listed V-0 @ 3.5 (0.14)
RoHS Compliant	Yes	Yes	Yes	Yes
Halogen-free*	Yes	Yes	Yes	Yes

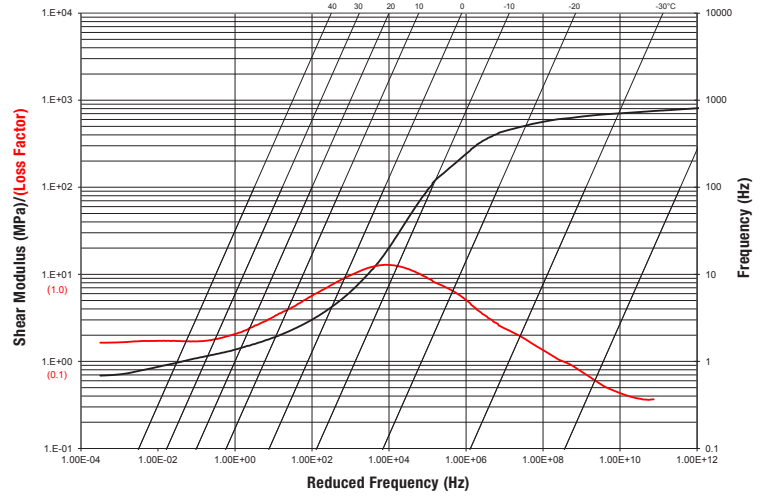
Halogen-free per IEC 61249-2-21.



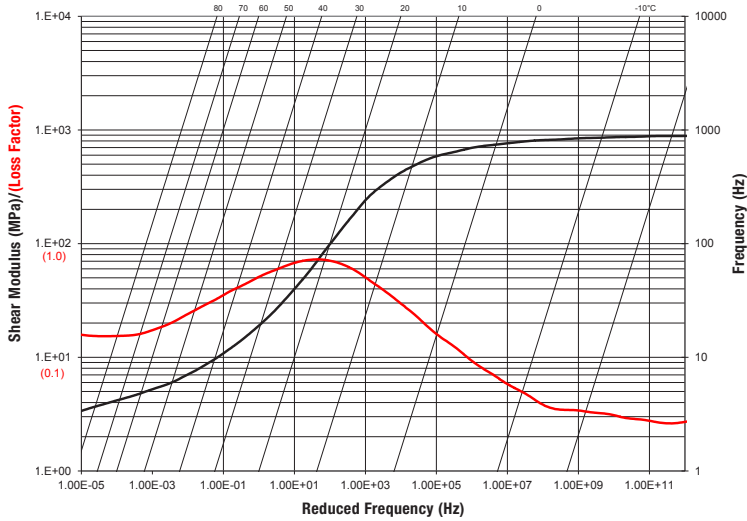
ISODAMP C-8002



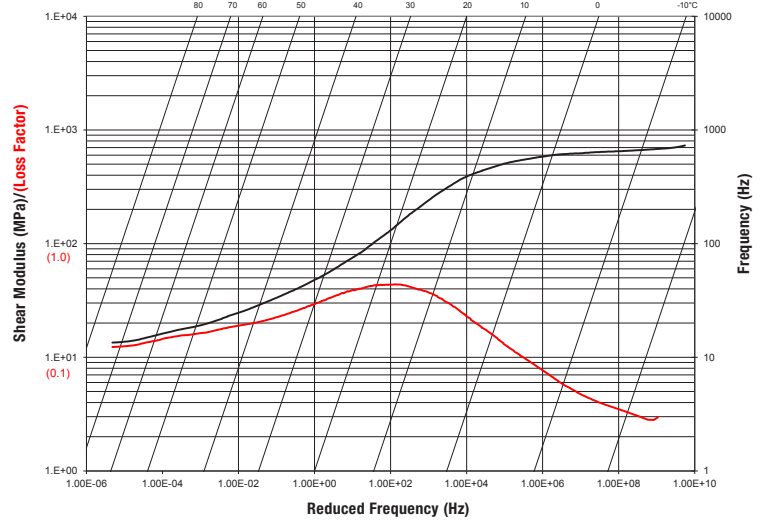
ISODAMP C-8012



ISODAMP C-8070



ISODAMP C-8130



ISOLOSS™ SL Molding Materials

E-A-R™ ISOLOSS elastomers are highly damped, low modulus, thermoset compounds with exceptional molding stability. The material exhibits high internal damping, excellent resistance to creep and compression and can be metal-bonded during molding.

ISOLOSS™ SL Series are the highest damped E-A-R™ elastomers, capable of loss factors above 2. Multiple Type A durometers are available.

Typical Properties

Property	SL-20300	SL-35300	SL-50300	SL-60300
Description	Synthetic Rubber	Synthetic Rubber	Synthetic Rubber	Synthetic Rubber
Hardness ASTM D2240 Type A Durometer 23C (73F) 15 sec impact	19	30	45	56
Compression Load Deflection kPa (psi) ASTM D575 at 0.51 cm/min (0.2 in/min)				
10% kPa (psi)	117 (17)	193 (28)	338 (49)	517 (68)
20% kPa (psi)	221 (32)	379 (55)	669 (97)	1013 (132)
30% kPa (psi)	352 (51)	607 (88)	1096 (159)	1689 (222)
Compression Set (%) ASTM D395 Method B 22 hr at 22C (72F) 22 hr at 70C (158F)	3 7	4 6	2 7	3 4
Tensile Strength kPa (psi) ASTM D412	4185 (600)	5667 (822)	10149 (1472)	10721 (1555)
Tear Strength kN/m (lbf/in) ASTM D624	11.4 (65)	20.1 (115)	18.9 (108)	24.15 (138)
Temperature Range Peak Damping Performance Temperature Range C				
@ 10 Hz	-23 to 29	-21 to 30	-5 to 42	-10 to 35
@ 100 Hz	-18 to 47	-16 to 47	-2 to 63	-4 to 47
@ 1000 Hz	-14 to 71	-12 to 72	4 to 82	1 to 60

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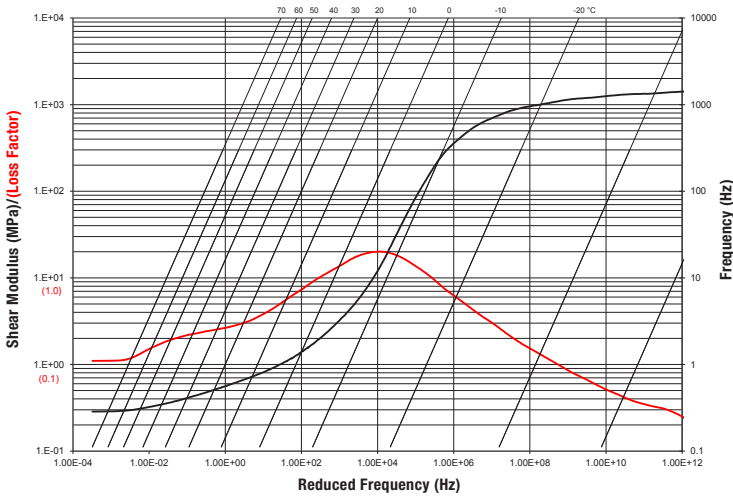
Environmental Properties

Property	SL-20300	SL-35300	SL-50300	SL-60300
Flammability UL 94 mm	Listed HB @ 2.3-2.5	Listed HB @ 3.5	Listed HB @ 1.5	Listed HB @ 1.5
RoHS Compliant	Yes	Yes	Yes	Yes
Halogen-free*	Yes	Yes	Yes	Yes

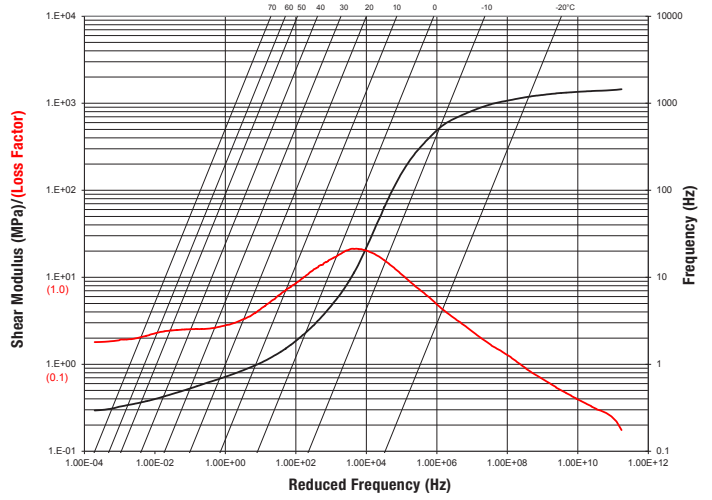
*Halogen-free per IEC 61249-2-21.



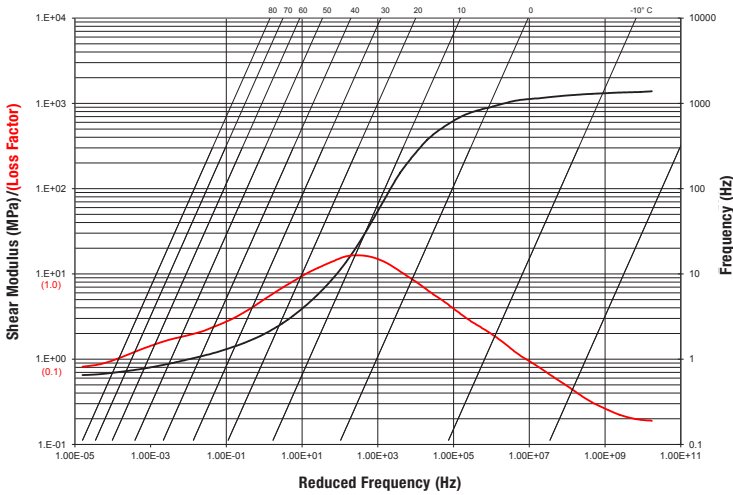
ISOLOSS SL-20300



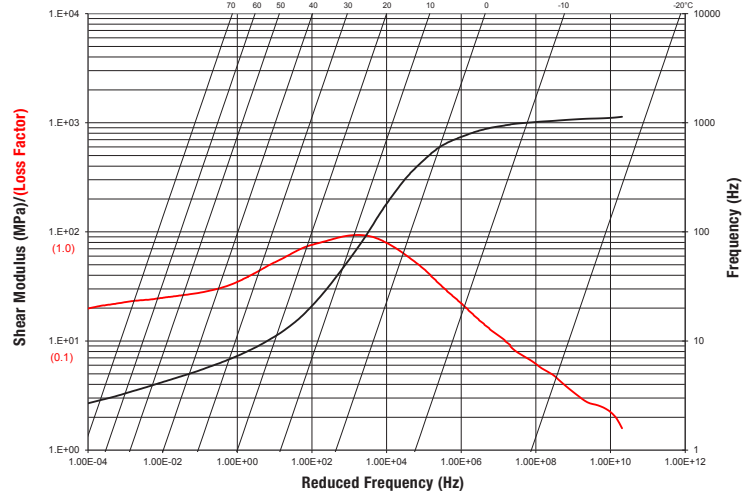
ISOLOSS SL-35300



ISOLOSS SL-50300



ISOLOSS SL-60300



E-A-R™ CONFOR™ polyurethane foams offer a unique combination of physical characteristics, high-energy absorption properties, and temperature-softening behavior. The foams exhibit no silicone off-gassing and exert low force under high compression, making them ideal for shock protection and gasketing in electronics applications. Soft and flexible, the highly damped, slow-recovery materials contain no halogens or metal compounds.

CONFOR™ EG (Electronics Grade) Series foams are available in thicknesses of 1.5mm and greater for use in thin gap spaces or as thicker cushioning or comfort material. Multiple Type 000 durometers are available, from soft to firm.

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)
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 (0.27)	.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	55-70
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)	0.83 (0.12)	1.65 (0.24)	2.83 (0.41)	3.03 (0.44)	6.89 (1.00)
Force @ 20% Compression kPa (psi)	1.1 (0.16)	1.86 (0.27)	2.90 (0.42)	3.59 (0.52)	6.89 (1.00)
Force @ 30% Compression kPa (psi)	1.2 (0.18)	2.07 (0.30)	3.31 (0.48)	4.0 (0.58)	7.58 (1.08)
Force @ 40% Compression kPa (psi)	1.5 (0.22)	2.41 (0.35)	3.93 (0.57)	4.76 (0.69)	8.96 (1.27)
Force @ 50% Compression kPa (psi)	1.8 (0.26)	3.03 (0.44)	4.96 (0.72)	6.0 (0.87)	11.03 (1.60)
Force @ 60% Compression kPa (psi)	2.4 (0.35)	4.21 (0.61)	6.89 (1.04)	8.96 (1.25)	15.86 (2.29)
Force @ 70% Compression kPa (psi)	3.9 (0.57)	7.58 (1.1)	13.1 (1.89)	16.34 (2.37)	28.96 (4.19)
Force @ 80% Compression kPa (psi)	9.0 (1.3)	21.4 (3.09)	37.9 (5.5)	51.0 (7.42)	89.63 (13.0)

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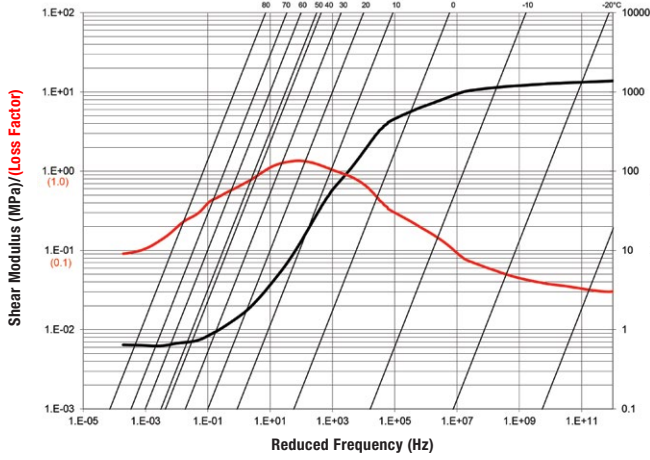
* 12.7mm thick specimen compressed at a rate of 5.1 mm/min

Environmental Properties

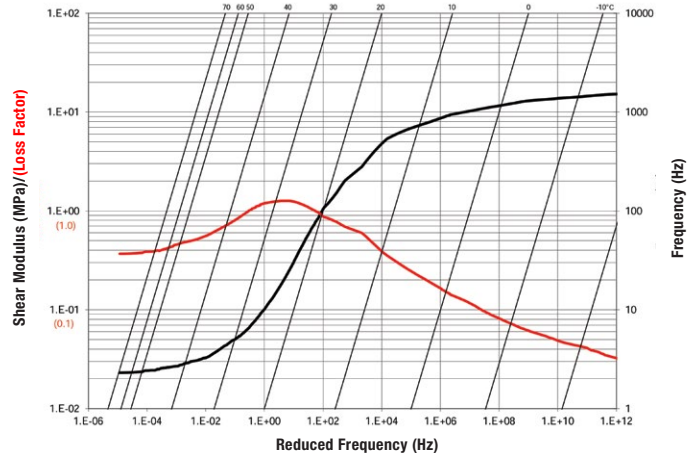
Property	CFNT-EGS	CF-40EG	CF-42EG	CF-45EG	CF-47EG
Flammability UL 94 mm	Meets HBF	Listed HF-1 @ 1.5-2.2	Listed HF-1 @ 2.1-2.3	Listed HF-1 @ 0.8-2.1	Listed HF-1 @ 2.0-2.2
RoHS Compliant	Yes	Yes	Yes	Yes	Yes
Halogen-free*	Yes	Yes	Yes	Yes	Yes



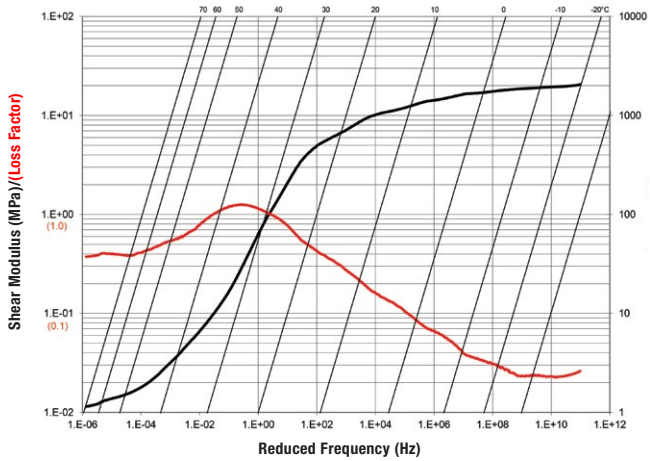
CFNT-EGS



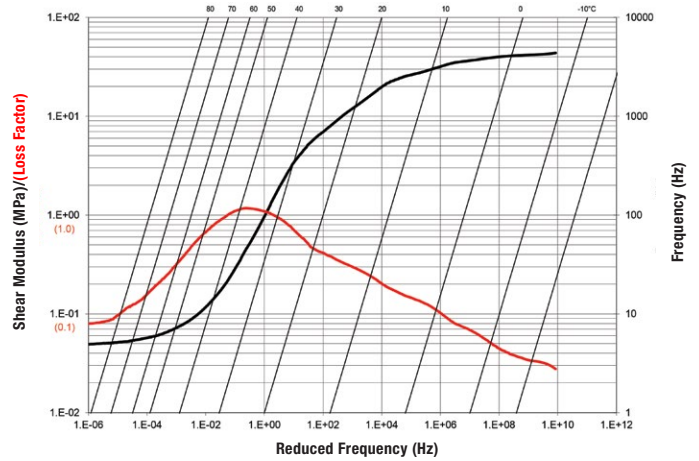
CF-40EG



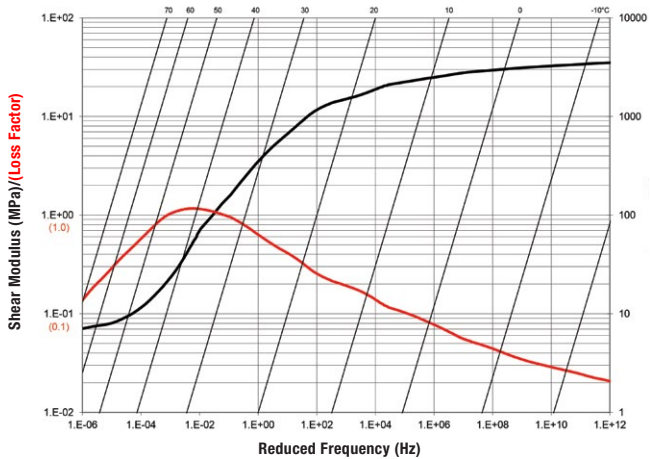
CF-42EG



CF-45EG



CF-47EG



ISOLOSS LS materials are fine-celled, low compression-set, high density polyurethane foams, offering unique combinations of design features for difficult mechanical energy control problems. ISOLOSS LS products exhibit very low compression set and excellent resistance to collapse as well as good shock absorption and vibration isolation performance. They also feature low outgassing and good dimensional stability.

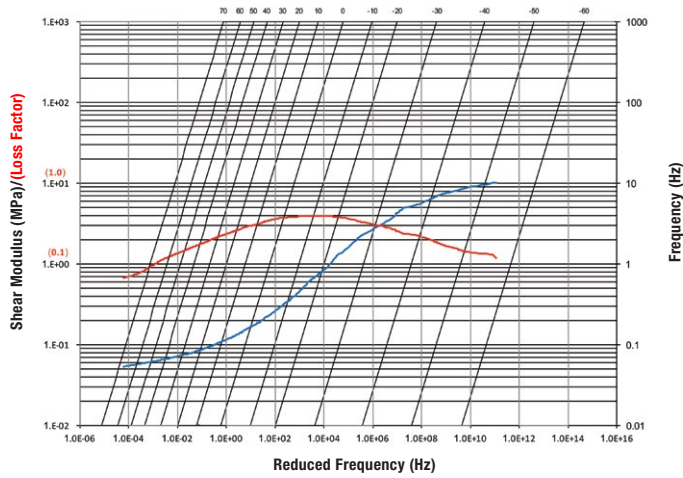
ISOLOSS LS foams provide excellent shock control and cushioning, yet are durable enough for gasketing, padding and sealing applications.

Typical Properties

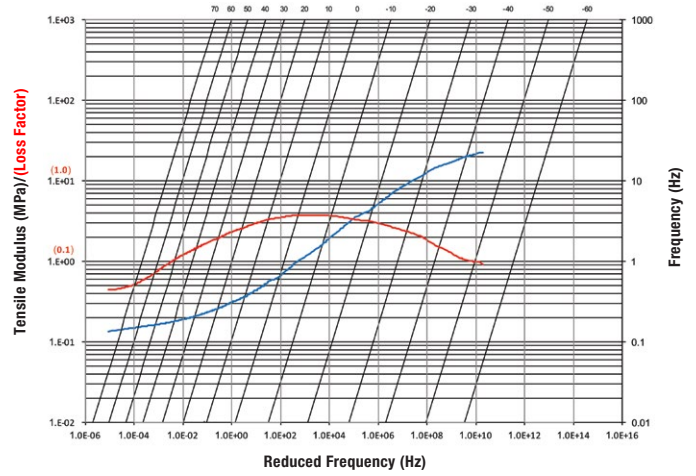
Property	LS-10xxLM	LS-15xx	LS-20xx	LS-25xx
Density Nominal kg/m³ (lb/ft³) ASTM D3574	160 (10)	240 (15)	320 (20)	320 (20)
Flammability UL94	Listed HBF @ .24"+ Meets @ .06"+	Listed HBF @ .12"- .37" Meets @ .06"+	Listed HBF @ .06"- .14" Meets @ .06"+	Listed HBF @ .03"- .06" Meets @ .06"+
FMVSS-302	Meets	Meets	Meets	Meets
Volume Resistivity ASTM D257, ohms	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹¹
Hardness ASTM D2240 Durometer 15 sec post impact, Type O 15 sec post impact, Type OO	3 27	12 50	19 58	21 62
Brittleness Temperature C (F) ASTM D746	-40C (-40F)	-40C (-40F)	-40C (-40F)	-40C (-40F)
Sealing Qualified for mfrd or natural gas; diesel, fuel or lubricating oil; liquidified petroleum gas; under UL 157 test standards UL 50 UL 508 UL 514B	Meets Meets Meets	Listed Listed Listed	Listed Listed Listed	Listed Listed Listed
Compression Set (%) (50% compression) ASTM D3574 22 hr at 23C (73F) ASTM D3574 22 hr at 70C (158F)	< 1 < 3	< 1 < 3	< 1 < 3	< 1 < 3
Compression Load Deflection kPa (psi) ASTM D3574, Deflection:				
10% kPa (psi)	13 (1.9)	30 (4.3)	50 (7.2)	71 (10.2)
20% kPa (psi)	18 (2.6)	44 (6.3)	79 (11.4)	113 (16.4)
30% kPa (psi)	21 (3.1)	55 (7.9)	102 (14.8)	150 (21.8)
40% kPa (psi)	27 (3.9)	71 (10.3)	134 (19.5)	198 (28.7)
50% kPa (psi)	37 (5.3)	99 (14.3)	189 (27.3)	280 (40.6)
60% kPa (psi)	56 (8.2)	155 (22.5)	301 (43.7)	459 (66.6)
70% kPa (psi)	108 (15.6)	306 (44.4)	637 (92.3)	1042 (151.2)
Tensile Strength kPa (psi) ASTM D3574	496 (72)	613 (89)	756 (110)	933 (135)
Tear Strength kN/m (lbf/in) ASTM D624	2.6 (14.6)	3.0 (17.1)	3.5 (20.0)	4.1 (23.5)
Temperature Range C (F) Normal Operating	-40C to 107C (-40F to 225F)	-40C to 107C (-40F to 225F)	-40C to 107C (-40F to 225F)	-40C to 107C (-40F to 225F)
Recommended Max. Intermittent	120C (248F)	120C (248F)	120C (248F)	120C (248F)
Outgassing ASTM E595 Modified per Ball Aerospace BASG 33074 24 hr at 10-5 Torr & 70C (158F), Weight Loss, % Volatile Condensable Material, %	1.7 0.9	1.7 0.9	1.7 0.9	1.7 0.9
Corrosion Resistance AMS D3568	Excellent	Excellent	Excellent	Excellent
Cold Flexibility AMS 3568 4hr at -18C (0F)	Passes	Passes	Passes	Passes
Dielectric Strength ASTM D149	60 (2)	60 (2)	60 (2)	60 (2)
RoHS Directive 2015/863/EU Compliant	Yes	Yes	Yes	Yes



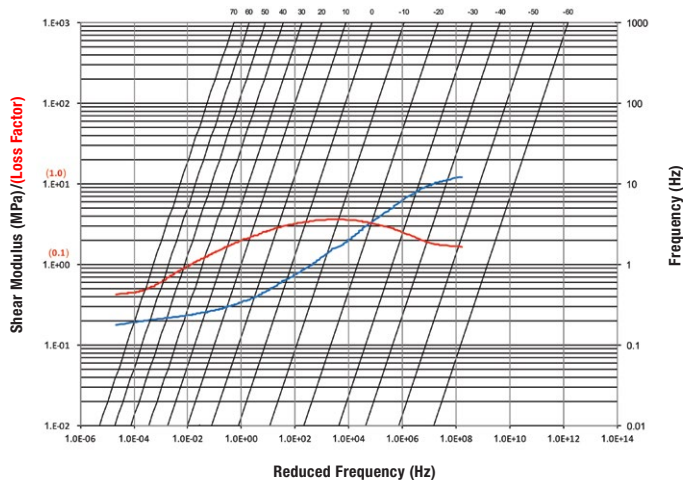
ISOLOSS™ LS-1019LM



ISOLOSS™ LS-1512



ISOLOSS™ LS-2012



E-A-R™ CONFOR™ polyurethane foams offer a unique combination of physical characteristics, high-energy absorption properties, and temperature-softening behavior. The foams exhibit no silicone off-gassing and exert low force under high compression, making them ideal for shock protection and gasketing in electronics applications. Soft and flexible, the highly damped, slow-recovery materials contain no halogens or metal compounds.

CONFOR™ SC (Small Cell) Series foams are available as thin as 0.5mm for use in very thin gap spaces. Two Type 000 durometers are available.

Typical Properties

Property	CF-42SC	CF-47SC
Density Nominal kg/m3 (lbs/ft3) ASTM D 3574-03 Test A	101 kg/m3 (6.3 lbs/ft.³)	101 kg/m3 (6.3 lbs/ft.³)
Tensile Strength kPa (psi) ASTM D 3574-03 Test E	131 (19.1)	288.82 (41.89)
Tear Resistance kN/m (lbf/in) ASTM D 3574-03 Test F	0.53 (3.0)	1.26 (7.19)
Elongation ASTM D 3574-03 Test F	181%	142%
Compression Set (%) ASTM D3574-03 Test D- 50% Compression 22 hr at 22C (72F) 22 hr at 60C (140F)	<2%	<1% <1%
Compression Load Deflection kPa (psi) ASTM D3574-03 Test C Modified		
@ 10% Deflection	3.22 (0.47)	12.4 (1.80)
@ 20% Deflection	3.64 (0.53)	13.5 (1.96)
@ 30% Deflection	4.17 (0.60)	13.9 (2.02)
@ 40% Deflection	4.98 (0.72)	15.8 (2.30)
@ 50% Deflection	6.30 (0.91)	19.8 (2.87)
@ 60% Deflection	8.73 (1.30)	27.6 (4.00)
@ 70% Deflection	14.8 (2.10)	48.8 (7.07)
@ 80% Deflection	39.8 (5.80)	147.0 (21.30)
Dust Resistance IEC 60529-Category 2 50% Compression 70% Compression	IP 5X Rating Dust Proof Dust Proof	IP 5X Rating Dust Proof Dust Proof

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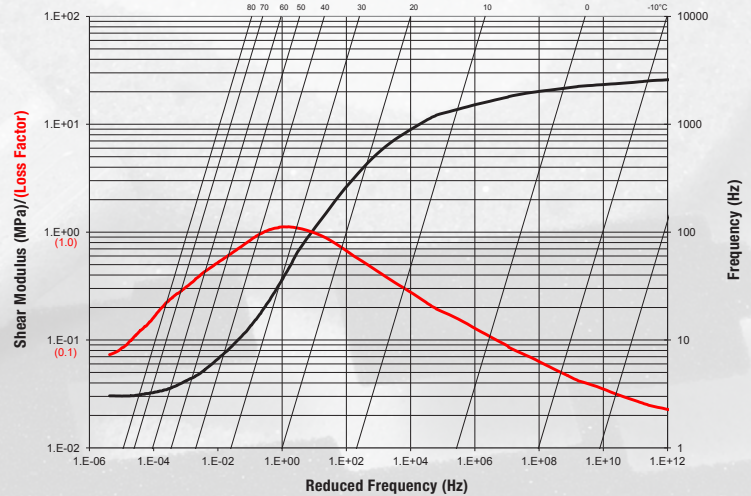
Environmental Properties

Property	CF-42SC	CF-47SC
Flammability UL 94 mm	Listed HF-1 @ 0.5-3.0	Meets HF-1 @ 1.6-3.5
RoHS Compliant	Yes	Yes
Halogen-free*	Yes	Yes

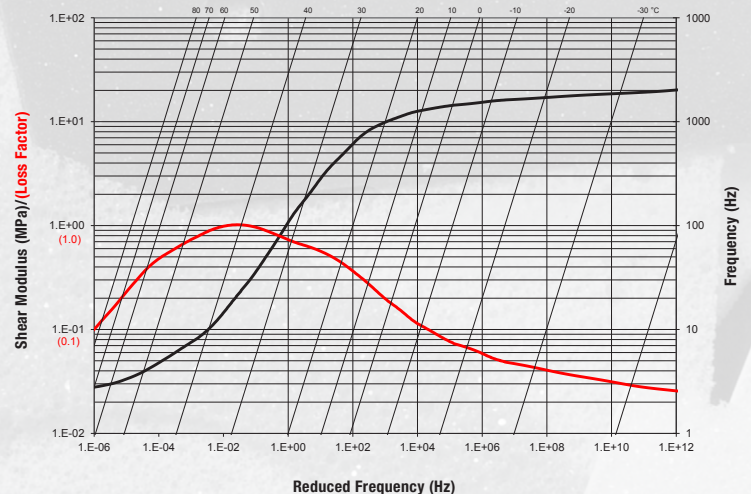
*Halogen-free per IEC 61249-2-21.



CF-42 SC



CF-47 SC



Extremely thin, microcellular polyurethane foams with a supportive PET carrier. These resilient foams are ideal for applications requiring cushioning and shock absorption for electronic devices.

- Low compression set
- Highly conformable gap filler
- RoHS Compliant
- Halogen-free*

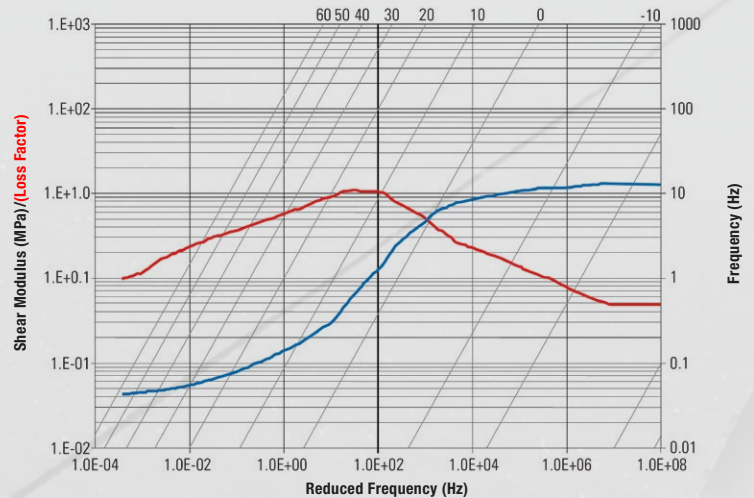
Typical Properties

Property	CF-320TF-010	CF-320TF-020
Density Nominal kg/m³ (lbs/ft³)		
Foam	320 (20)	320 (20)
PET Carrier	1400 (87)	1400 (87)
Thickness (mm)	0.1	0.2
Peak Tan Delta		
Torsional DMA 10 Hz	1.2	1.2
Peak Tan Delta Temp °C		
Torsional DMA 10 Hz	21	15
Glass Transition Temp °C		
Torsional DMA 10 Hz	10	6
Tensile Strength kg/in		
ASTM D471	3.2	3.2
Tear Strength N		
ASTM D3574-03 Test F	5	5
Tensile Modulus (MPa)		
ASTM D471 at 20% Strain	54	27
Elongation (%)		
ASTM D471	80	80
Compression Set (%)		
ASTM D3574-03 Test D		
50% Compression		
22 hours at 22°C (72°F)	<10	<2
Compression Force Deflection kPa (psi)		
ASTM D 3574-03 Test C Modified		
@ 20% Compression	17 (2.4)	8 (1.2)
@ 50% Compression	170 (25)	28 (4.1)
RoHS Compliant	Yes	Yes
Halogen Free*	Yes	Yes

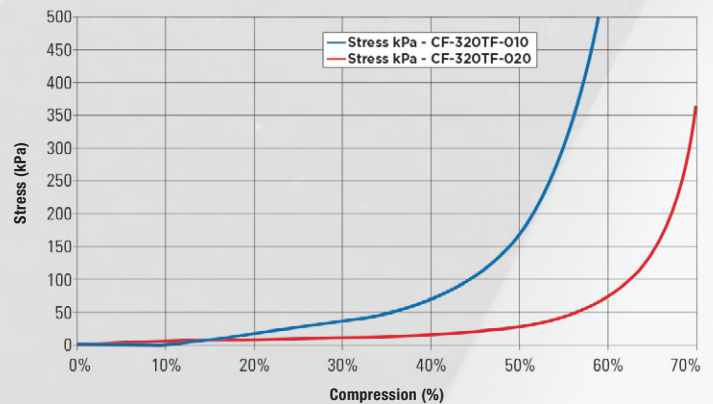
The above technical information and data should be considered representative or typical only and should not be used for specification purpose.

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

CF-TF-320-020



CONFOR TF-COMPRESSIVE FORCE DEFLECTION



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