



NRC stands for Noise Reduction Coefficient. This is standard and a commonly used method to calculate the ratings of the ASTM C423 test on noise reduction foam. This method covers frequencies between 125HZ and 4000HZ. The higher the NRC rating, the more sound material can absorb.

All Noise Studio Control foam is a California 117 flame retardant specification, class B type.

Fire resistant/retardant is a test that calculates "Flame Spread Index", and "Smoke Developed Index". These numbers determine whether the material is "Class A", "Class B", or "Class C". Class A tells that the material will not burn or smoke much, and Class C represents that the material will burn heavily and produces even more smoke. Class B will burn a little more than Class A, and also produce slightly more smoke than in Class A.

| Urethane Ether Foam | Open Cell Foam Specs <i>(Foam specification comes from foam manufacture)</i> Charcoal Firm |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Color: | Dark Charcoal |
| ILD (LBS/50sq.in): | 67-75 |
| Density (LBS/Cubic Ft.) | 1.50-1.70 |
| 25% IFD (Pounds) | 65-75 |
| Support Factor (65% / 25% Min.) | 1.90 |
| Tensile (pis) Min. | 10.0 |
| Elongation (%) Min. | 100 |
| Tear (PPI) Min. | 1.00 |
| Resiliency (%) Min. | 25 |

1" Wedge Foam: Recommended for mid and high frequency ranges, and areas that require decent sound control.

| (NRC) Noise Reduction Coefficient | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | Overall |
|--------------------------------------------|--------|--------|--------|---------|---------|---------|---------|
| 1" Wedge | 0.12 | 0.24 | 0.20 | 0.55 | 0.95 | 1.02 | 0.50 |

2" Wedge Foam: Recommended for most applications, and most small medium sized rooms. This is very effective against standing waves and flutter echoes.

| (NRC) Noise Reduction Coefficient | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | Overall |
|--------------------------------------------|--------|--------|--------|---------|---------|---------|---------|
| 2" Wedge | 0.14 | 0.29 | 0.60 | 0.89 | 1.04 | 1.03 | 0.71 |

3" Wedge Foam: Feature maxim surface area for greater exposure to sound waves, recommended for all frequency ranges in any size area.

| (NRC) Noise Reduction Coefficient | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | Overall |
|--------------------------------------------|--------|--------|--------|---------|---------|---------|---------|
| 3" Wedge | 0.25 | 0.49 | 0.75 | 0.99 | 1.05 | 1.07 | 0.80 |

4" Wedge Foam: Recommended for medium to large area room with pronounced low frequency problems or where sonic accuracy is mandatory & stronger acoustic absorption is required.

| (NRC) Noise Reduction Coefficient | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | Overall |
|--------------------------------------------|--------|--------|--------|---------|---------|---------|---------|
| 4" Wedge | 0.30 | 0.51 | 0.99 | 1.13 | 1.09 | 1.12 | 0.93 |

| Property | Specification | Test Method |
|-------------------------------|---------------------------------|----------------------------------------------|
| Color | Dark Charcoal | Visual |
| Density | 1.80 ± 0.05 PCF | ASTM D3574-03 Test A |
| 25% IFD @ 4" | 75 ± 10% lbs/50 in ² | ASTM D3574-03 Test B ₁ |
| 65% IFD @ 4" | 135 lbs/50 in ² min | ASTM D3574-03 Test B ₁ |
| Support (Sag) Factor | 2.0 min | ASTM D3574-03 Test B ₁ |
| Hysteresis | 65% min | ASTM D3574-03 Test B ₁ |
| Dynamic Fatigue Loss @ 25 % | 35% | ASTM D3574-03 Test I ₃ 80k cycles |
| Dynamic Fatigue Height Loss | 5% | ASTM D3574-03 Test I ₃ 80k cycles |
| Resiliency (Ball Rebound) | 35% min | ASTM D3574-03 Test H |
| Air Flow | 2.0 SCFM min | ASTM D3574-03 Test G |
| Tensile | 20.0 psi min | ASTM D3574-03 Test F |
| Tear | 1.5 pli min | ASTM D3574-03 Test E |
| Elongation (2.5" gage length) | 100% min | ASTM D3574-03 Test E |
| Compression Set @ 90% | 10% max | ASTM D3574-03 Test D |
| Filler Content | 0% | Formula Analysis |
| *Combustibility | Conforms | California TIB 117 A & D |
| | Conforms | FMVSS 302 |
| | Conforms | 16 CFR 1632 (cigarette test) |

*This standard should be solely to measure and describe the properties of materials, products or systems in response to heat and flame under controlled laboratory conditions and should not be considered or used for the description, appraisal or regulation of fire hazard or materials, products or systems under actual fire conditions.

CODE RED II TEST RESULTS

| | |
|-----------------------------|-----------------------|
| Boston Fire Prevention Code | Passed |
| California #117 | Passed |
| California #133 (mock-up) | Passed |
| UL-94HF | Passed |
| MVSS-302 | Passed |
| UFAC Filling & Barrier | Passed |
| ASTM E162 | Passed, less than 100 |
| BS 5852 (Part 2) | Passed |
| NFPA 260 | Passed |

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