

# Conasorb F

## Sound Absorbing Material



**CONASORB F** is a flexible polyester polyurethane foam specifically formulated to absorb airborne and random incidence noise, utilizing minimum weight and thickness. CONASORB F has a service life greater than that of polyether foams. The manufacturing control of the cellular structure ensures the optimum ratio of open and closed cells for maximum performance. CONASORB F reduces airborne sound energy in the frequency ranges found in most environments.

### Application and Product Data

#### Uses

- Enclosure Liner • Acoustic Baffles • Silencer Liner

**Conasorb F** is easy to apply and can be easily cut with a common utility knife. For secure and permanent installations use specified adhesives available at WILREP LTD.

#### Thickness

F-50: 0.5 in. thick, F-100: 1.0 in. thick, F-200: 2.0 in. thick

#### Standard Dimensions

Sheets: 60" wide X 72", untrimmed (30 sq. ft.)

Rolls: 60" wide X 75' ( F-50 and F100 only)

Custom trimming and die cutting can be provided.

#### Typical Physical Properties

Thermal Conductivity: ASTM C 518 – 0.27 Btu. in. / hr. ft<sup>2</sup>. °F

Flammability: MVSS 302 – Passes

Elongation (%): ASTM D 3574-86 – 200 minimum

Compression Set: ASTM D 3574-86 – Maximum 15% at 70°F(21° C)

Tensile Strength: ASTM D 3574-86 – 15 psi, minimum

Density: ASTM D 3574-86 – 1.8 - 2.2 lb. / cu. ft.

Tear Strength: ASTM D 3574-86 – 2.0 lb. / in. minimum

Frequency (Hz)	Absorption Coefficient		
	F-50	F-100	F-200
80	0.04	0.01	0.08
100	0.05	0.05	0.17
125	0.05	0.04	0.18
160	0.05	0.10	0.30
200	0.05	0.15	0.40
250	0.07	0.21	0.56
315	0.08	0.28	0.70
400	0.12	0.45	0.88
500	0.16	0.64	1.00
630	0.21	0.86	1.06
800	0.29	1.02	1.08
1000	0.41	1.04	1.04
1250	0.55	0.96	0.97
1600	0.72	0.88	0.93
2000	0.85	0.83	0.93
2500	0.90	0.83	1.02
3150	0.88	0.85	1.05
4000	0.86	0.92	1.04
5000	0.87	0.96	1.07
6300	0.88	0.96	1.08

NRC	0.35	0.70	0.90
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### Performance Data

Performance data is an extract from NRC - Ottawa report on tests according to ASTM C 423-90a.

