

CONFOR NT (New Technology) Ergonomic Foams

Conforming, Comfort Management Foams

- **Conform to the body, to reduce pressure points and improve ergonomic comfort.**
- **Afford greater design flexibility—performance can be engineered specifically to the application.**
- **Exhibit controlled collapse, which reduces *bottoming out* and ensures long-term support.**
- **Meet CAL 117 and UL94 HBF flammability standards.**
- **Feature lower density, for reduced weight and cost.**

Product Applications

Back supports

Bed pads

Mattresses

Pillows

Seat cushions

CONFOR NT foams, part of the CONFOR Ultra Series of viscoelastic foams for specialty applications, offer outstanding ergonomic comfort and excellent response to weight and temperature. As do other CONFOR foams, CONFOR NT foams soften and conform when in contact with body warmth. The formulations are engineered not to *bottom out*, or collapse completely. They also feature a lower density, are lighter in weight than other CONFOR foams and have an appealingly soft *feel*.

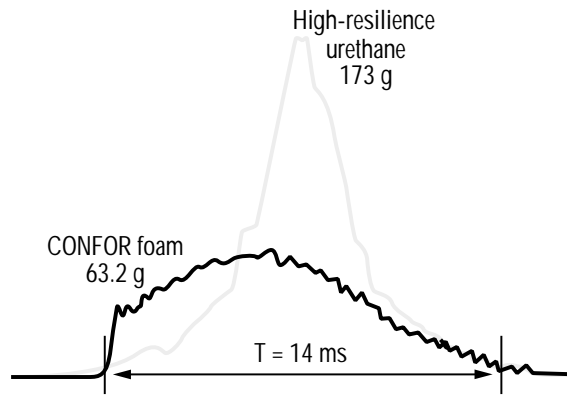
E-A-R's extensive family of CONFOR viscoelastic foams is ideal for comfort management and ergonomic applications. Unlike high-resilience foams, low-rebound CONFOR foams do not push back against pressure and weight. They also slowly readjust when weight is shifted. This low-rebound behavior, coupled with the foams' thermal response, provides balanced, pressure-free support—critical to long-term comfort. The *damped* foams also absorb shock and vibration, displacing the energy laterally with virtually no recoil. Thus the foams are ideal for many types of padding, and they help prevent stress and fatigue in applications such as occupational vehicle seating.

E-A-R has custom-engineered CONFOR NT and other CONFOR formulations for specific properties—thermal response, rebound or collapse rate, for example—to meet the requirements of a wide range of health-related, cushioning and comfort-management applications. Typical ergonomic applications include patient beds, therapeutic pillows, orthotic brace cushions, back pads, surgical headrests and wheelchair cushions.

Features	Benefits
Lower density	Reduced weight and cost
Conforming fit	Ergonomic comfort
Engineered chemistry	Application-specific performance
Largest product offering	Greater design flexibility
Controlled softening	Reduces <i>bottoming out</i>

Product Line Features

- **Eight standard thicknesses**
- **Available in sheet or bun form**
- **Bun provides 290 board feet of foam**



The curves in this graph compare the energy-absorption capabilities of an undamped urethane foam and CONFOR foam. CONFOR foam evenly distributes the load over time while high-resilience urethane foam returns the energy quickly and directly to the point where the pressure was applied.

Typical Physical Properties

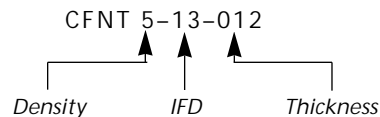
Density: 5 pcf

IFD (Indentation Force Deflection): 13

Flammability: Meet CAL 117 and UL94 HBF standards

Feel	Description	Item Code	Thickness (inches)	Size (inches)	Weight (lb/sq ft)	Unit
Soft	CFNT-5-13-012	710-3012	0.125	36 x 80	0.054	sheet
	CFNT-5-13-025	710-3025	0.25	36 x 80	0.11	sheet
	CFNT-5-13-050	710-3050	0.50	36 x 80	0.22	sheet
	CFNT-5-13-075	710-3075	0.75	36 x 80	0.33	sheet
	CFNT-5-13-100	710-3100	1.0	36 x 80	0.44	sheet
	CFNT-5-13-200	710-3200	2.0	36 x 80	0.89	sheet
	CFNT-5-13-300	710-3300	3.0	36 x 80	1.33	sheet
	CFNT-5-13-400	710-3400	4.0	36 x 80	1.77	sheet
	CFNT-5-13	710-3001	14.5	36 x 80	190/bun	bun (290 board feet)

Product Nomenclature:



The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.