



TECHNICAL BULLETIN

TECHNICAL BULLETIN # 1024

SUBJECT: RESTRAINED AND UNRESTRAINED THERMAL COEFFICIENTS OF THERMAL EXPANSION AND CONTRACTION OF INSULFOAM EPS

DATE: NOVEMBER 7, 2012

InsulFoam EPS is used in many applications where the Typical Physical Properties noted in ASTM C578 “Standard Specification for Rigid, Cellular Polystyrene Thermal Insulations” or in InsulFoam EPS data sheets do not supply values that may be required for engineered and OEM applications. In these highly sensitive applications the expansion and contraction coefficients associated with temperature are desired.

InsulFoam EPS has the same values for expansion and contraction when used in densities of 0.70 to 3.3 pcf. InsulFoam EPS values in the restrained condition are those typically used as seldom is the InsulFoam EPS in a free unrestrained condition.

InsulFoam EPS Thermal Expansion/Contraction Coefficient		
	Restrained	Unrestrained
InsulFoam XI, I, VIII, II, IX, XIV & XV	1.0×10^{-5} in./in./°F	3.5×10^{-5} in./in./°F

If you have more questions pertaining to Insulfoam EPS products, contact the Insulfoam Technical Center at 800-469-8870