



# ICA-LITE® EPS Specification Sheet



ICA-LITE® brand expanded polystyrene insulation is a rigid, closed cell, lightweight plastic foam. It is designed for use in foundation, wall and roof insulation applications in new commercial or residential buildings. It is also used extensively in low temperature warehouses, food processing plants, agricultural buildings, and a variety of retrofit applications. ICA-LITE® PLUS is the same grade product with the additional benefit of an insect resistant additive. If your project requires laminated EPS material, please refer to our ICA-SHEATH. ICA-LITE® EPS meets or exceeds the requirements of **ASTM C578**, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*.

			Density (pcf)						
Classification			Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Nominal Density			0.75	1.00	1.25	1.50	2.00	2.50	3.00
Density, min, lb/ft <sup>3</sup>			0.70	0.90	1.15	1.35	1.80	2.40	2.85
Property	Units	ASTM Test							
<b>Thermal Resistance</b>									
R Values (at 75°F)	per inch thickness	—	3.2	3.85	3.92	4.17	4.35	4.50	4.60
R Values (at 40°F)			3.5	4.17	4.25	4.55	4.76	4.85	5.05
R Values (at 25°F)			3.9	4.35	4.55	4.76	5.00	5.05	5.10
<b>Strength Properties</b>									
Compressive (10% def)	psi	D1621	5-9	10-14	13-18	15-21	25-33	40	60
Flexural	psi	C203	10-18	25-30	32-38	40-50	55-75	60	75
Tensile	psi	D1623	14-18	16-20	17-21	18-22	23-27		
Shear	psi	D732	11-13	18-22	23-25	26-32	33-37		
Shear Modulus	psi	—	190-230	280-320	370-410	460-500	600-640		
Modulus of Elasticity	psi	—	110-150	180-220	250-310	320-360	460-500		
<b>Moisture Resistance</b>									
Absorption (vol.)	%	C272	4.0	4.0	3.0	3.0	2.0	2.0	2.0
<b>Coefficient of Thermal Expansion</b>									
	in./((in.)(F))	D696	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035
<b>Maximum Service Temp.</b>									
Long Term	°F	—	167	167	167	167	167	167	167
Intermittent			180	180	180	180	180	180	180
<b>Oxygen Index</b>									
	%	D2863	24	24	24	24	24	24	24
<b>Dimensional Stability</b>									
	% change	C303	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0

<b>Toxicity</b>	Laboratory Reports	Approximately the same as burning wood, paper, or cardboard.
<b>Fungus &amp; Bacterial Resistance</b>	F.H.A. Test Procedures	Will not support bacterial or fungus growth — no food value.



Extraordinary Product Solutions

Insulation Corporation of America

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# ICA-LITE® EPS Code Compliance



ICA-LITE® complies with the following codes and approvals:

AIA (Section 702.9)  
Underwriters Laboratories  
Factory Mutual (Ceiling Tile)  
LEED®\*



\* The LEED® green building certification program is the nationally accepted benchmark for the design, construction, and operation of green buildings. ICA is a manufacturer of products that contribute to LEED Points. 'LEED®' and related logo is a trademark owned by the U.S. Green Building Council® and is used with permission.

ICA is a proud member of the **EPS Industry Alliance** and is also certified as a women's business enterprise by the **Women's Business Enterprise National Council (WBENC)**, the nation's largest third-party certifier of the businesses owned and operated by women in the U.S. We recognize the commitment to supplier diversity that is embraced by corporations and government agencies today and can add diversity to your supply chain.



ICA-LITE® can be manufactured to meet or exceed the following Federal and Military specifications, along with others.

ASTM	C578-11b <sup>e1</sup> Types I, VIII, II & IX
Military Spec.	MILP-19644C
Military Spec.	MILP-40619A
Army Corps of Eng.	CEGS 07220
Coast Guard	CE256
Air Force	AFM-88-15
HUD/FHA	Use of Material Bulletin #71
PA D.O.T. Bulletin 15	Section 1107.02(m)

**Caution:** All ICA products are manufactured with modified (flame retardant) beads; for construction use however, they should be considered combustible.

#### Limited Warranty

The warranty terms contained herein shall commence on the date of purchase. All written warranties contained on the face of packages or informational brochures relating to the purchased item shall be in effect for a reasonable period of time not to exceed 90 days from the date of purchase. Insulation Corporation of America warrants this product against defects in material and workmanship by Insulation Corporation of America. During the warranty period the product will be replaced without charge or the purchase price will be refunded at Insulation Corporation of America's option. This warranty only covers defects in material or workmanship in the normal use and does not cover damages or losses resulting from accident or abuse, lack of reasonable care or other unreasonable uses. Insulation Corporation of America shall have no responsibility for the use or care of the product or for any personal injury, property damage or any special incidental contingent or consequential damages or losses of any kind resulting from defects in the product or the failure of the product to perform. The exclusive remedy for breach of the limited warranty contained herein is the replacement of the defective product or the return of the purchase price at Insulation Corporation of America's option. In no case shall Insulation Corporation of America's liability under any other remedy prescribed by law exceed the purchase price. IMPLIED WARRANTIES (if any), including but not limited to implied warranties of fitness for a particular purpose and merchantability, are limited in duration to a period ending 90 days from the date of original purchase. NOTE: No other warranty, written or verbal is authorized by Insulation Corporation of America. Some states do not allow the exclusion or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Notice of a consumer claim under this warranty should be directed to Insulation Corporation of America, Consumer Claims Department, 2571 Mitchell Avenue, Allentown, Pennsylvania 18103. Insulation Corporation of America assumes no responsibility and shall have no liability, consequential or otherwise, of any kind arising from the acts, omissions, information or test results and/or defects in material or workmanship, by others who have supplied material or information with respect to this product. Insulation Corporation of America will supply test result information upon written request.



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