

Industrial Applications

Tech Data

ThermalStar® U provides exceptional value when needed for cost sensitive industrial applications. ThermalStar U is a molded, expanded polystyrene with a stable lifetime R-value and a range of available compressive strengths. A low Global Warming Potential (GWP) and Zero Ozone Depletion (ODP) blowing agents demonstrate our commitment to sustainability.



Property	ASTM Test Method	5	8	13	25
Compressive Strength (psi) at 10% Deformation ¹	D1621	5	8	13	25
Nominal Density (lbs/ft ³)	D1622	0.90	0.90	1.50	1.75
Density, min (lbs/ft ³)	D1622	0.75	0.75	1.30	1.65
R-value per inch at 75°F Mean Temperature (°F·ft ² ·h/Btu)	C518	3.3	3.5	3.8	4.2
R-value per inch at 40°F Mean Temperature (°F·ft ² ·h/Btu)	C518	3.6	3.7	4.0	4.6
R-value per inch at 25°F Mean Temperature (°F·ft ² ·h/Btu)	C518	3.8	4.0	4.2	4.8
Surface Burning - Flame Spread Index	E84	<25	<25	<25	<25
Surface Burning - Smoke Developed Index	E84	<450	<450	<450	<450
Flammability of Plastics	UL94	HF-1	HF-1	HF-1	HF-1
Maximum Use Temperature		Short Term (10-15 minutes) 180°F Long Term 165°F			

¹ThermalStar U is elastic up to 1% deformation. A safety factor of 3 is recommended for long term loads to minimize long term deflection.

Atlas will also manufacture custom grades of ThermalStar U to meet your specific industrial application.

VISIT [ATLASMOLDEDPRODUCTS.COM](https://atlas molded products.com) FOR ADDITIONAL PRODUCT INFORMATION.

GREATER COVERAGE
GREATER AVAILABILITY



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