

NexKemia's NexTherm materials offer new options for improved EPS insulating performance. The physical properties of the **NexTherm MT55L** and **MT54H**, NexKemia's premier grades of Graphite EPS (GPS), are as follows:

ASTM C578		MT55L Graphite Polystyrene					
Property*	Unit	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Density	Pcf, minimum	0.9	1.15	1.35	1.8	2.40	3.0
Thermal Resistance (R-Value)**	ft ² ·h·°F/Btu at 75°F	5.0	5.0	5.0	5.0	4.9	4.8
	ft ² ·h·°F/Btu at 40°F	5.4	5.4	5.4	5.4	5.2	5.0
	ft ² ·h·°F/Btu at 25°F	5.6	5.6	5.6	5.5	5.3	5.2
Compressive Resistance 10% Deformation	psi, minimum	10	13	15	25	40	60
Flexural Strength	psi, minimum	25	32	39	50	60	75
Water Vapor Permeance	perm-in, max	4.0	3.0	3.0	2.5	2.0	2.0
Water Absorption By Total Immersion	% by Volume Max	1.2	1.2	1.2	1.0	1.0	1.0
ASTM E84/UL723							
Flame Spread	Index	0					
Smoke Development	Index	15					

*NexTherm MT Series meets ASTM C578 « Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation ». ULEX listing R26178. The data provided are typical results. Final properties may vary depending upon expansion and molding parameters.

**R-Value properties are based upon 1-1/16" thickness.