

TEXO[®] HTM Mat



Product Description

TEXO High Temperature Mat (HTM) is a unique needled mat insulation product manufactured from highly resilient fiberglass textile fibers. It is specifically designed for use in aerospace, automotive, construction and industrial applications. **TEXO HTM** is odorless, fire resistant, and asbestos-free, as well as free of ceramic (refractory) fibers. It is a 100% nonwoven E-Glass fiber glass mat. Its resilience and tensile strength offer superior handling characteristics to the OEM fabricator as well as the end user. Maximum operating temperature: 1200° F.

User Benefits

- Provides excellent thermal and acoustical properties. Resistant to mold, decay and vermin.
- TEXO HTM insulation is easily fabricated and may also be used with glass fiber, carbon fiber and aramid fiber cloth, as well as coated fabrics.
- Conforms to the following specification:
 - MIL-I-24244 Revision C**
 - MIL-I-16411 Revision F**
 - NRC Guide 1.36**
 - ASTM E-84-98 (Class A Rating)**
 - Smoke Development 5**
 - Flame Spread 10**
 - ASTM C-692 Non-corrosive to metal**
 - ASTM C-1086 Mechanically Bonded Thermal Insulation**
- Application Uses:
 - Industrial** - removable pads, power generating equipment, furnaces and ovens, welding blankets
 - Automotive** - headliner, floor, and dash insulation
 - Marine** - ship turbines, pipe insulation, wallboard
 - Aerospace**
 - Acoustical**
 - Fire stopping and through penetration**
 - High temperature filtration media**
- Manufacturing facilities operate quality management systems that comply with ISO9001:2008 requirements.

Packaging

<u>Thickness</u> (in.)	<u>Pallet</u> (sq.ft.)	<u>Truckload</u> (sq.ft.)
1/4	3,000	108,000
1/2	1,500	54,000
3/4	900	32,400
1.0	900	32,400

Products are packaged in cardboard cartons, four rolls per pallet, 36 pallets per truckload. Full pallet shipments only. All products have a 2 in. ID cardboard core.

*Special packaging available for all products.
Pricing quoted per request.*

GLASS FOR FUTURE



Nippon Electric Glass

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Storage

It is recommended that these products be stored in a dry area with ambient temperature and relative humidity, optimally from 20°C to 25°C and between 50% and 70%, respectively. Protect product from all sources of water at all times. A First-In-First-Out (FIFO) stock control system is also recommended to minimize the influence of storage conditions. Product should be stored in an area free of dirt and debris. With proper storage, there are no known limitations on the shelf life of the product.

Caution

To avoid the possibility of potential injury and to avoid damage to the material or packaging, maintain column stability by limiting pallet stacking to two (2) high.

NOTE: This data is offered for informational purposes only in the selection of a composite reinforcement. The information contained in this bulletin is based on actual laboratory data. We believe that this information is reliable, but do not guarantee its applicability to the process of the user or assume any liability arising out of its use or performance. The user, by accepting the products described, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial laminates when using this or any other reinforcement.

Because of numerous factors affecting the results, we make no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose. Statements in this document shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code, or insurance regulation.

Product Information

Thickness (in.)	Standard Roll			Standard Product	
	Length (ft.)	Area (sq.ft.)	Weight (lbs.)	Weight (oz./sq.ft.)	Weight (pcf)
1/4	150	750	140	3	9
1/2	75	375	140	6	9
3/4	45	225	172	12.25	12.25
1.0	45	225	212	15	11.25

Standard roll width is 60 in. Custom widths, thickness and densities are available through special order. Pricing quoted per request. Contact your NEG Fiber Glass Account Manager.

Thermal Conductivity (ASTM C177)

Thickness		Density	
inches	.250	lbs./ft ³	9.0
mm	6.36	kg/m ³	144

Thickness		Density	
inches	.482	lbs./ft ³	9.37
mm	12.2	kg/m ³	150

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.05	0.34	0.14	0.79
260	500	0.07	0.50	0.09	0.53
399	750	0.09	0.65	0.07	0.38
538	1000	0.13	0.89	0.05	0.28
648	1200	0.17	1.18	0.04	0.21

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.04	0.30	0.29	1.63
260	500	0.06	0.44	0.19	1.10
399	750	0.09	0.60	0.14	0.80
538	1000	0.12	0.82	0.10	0.59
648	1200	0.15	1.03	0.08	0.47

Thickness		Density	
inches	.706	lbs./ft ³	12.6
mm	17.9	kg/m ³	202

Thickness		Density	
inches	.995	lbs./ft ³	10.9
mm	25.3	kg/m ³	175

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.05	0.35	0.36	2.03
260	500	0.07	0.49	0.25	1.45
399	750	0.09	0.65	0.19	1.09
538	1000	0.12	0.86	0.14	0.82
648	1200	0.16	1.13	0.11	0.62

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.05	0.34	0.52	2.94
260	500	0.07	0.50	0.35	1.98
399	750	0.10	0.70	0.25	1.43
538	1000	0.14	0.94	0.19	1.05
648	1200	0.18	1.23	0.14	0.81

More information:

<http://www.neg.co.jp/inquiry/>

<http://www.neg.co.jp/en/inquiry/>