PLIATEMP® SERIES INSULATION

PliaTemp® Series insulation is a family of advanced thermal and acoustic insulating materials engineered for application-specific performance. The composition of PliaTemp® insulation varies, depending on the application, but generally consists of polymer and other non-glass fibers designed to meet specific thermal, acoustic, or structural requirements.

Features

- Pliable and flexible
- Excellent heat resistance
- High thermal stability
- Fire-blocking capabilities
- Good thermal and acoustic properties
- Ease of handling and installation

Product Options

- Extensive range of product performance makes the PliaTemp® Series excellent materials for supporting a broad spectrum of flame and thermal management applications. PliaTemp® Series materials can be processed and fabricated to meet customer-specific criteria.
- Owens Corning can engineer a solution that provides an effective alternative to current insulation or thermal management needs.
- Owens Corning PliaTemp® insulation is available in varying weights, thicknesses, width, and lengths. Consult your national account managers for more information concerning your specific requirements.

Availability

PliaTemp® Series is available in die-cut parts as an engineered solution. Our team offers engineering design and testing support for all fabricated parts.

PliaTemp® 1000 LT/HD: Flexible, rayon fiber-based needle-punched product designed for improved flammability performance. Primarily intended as a stand-alone material but can be used in combination with other materials.

PliaTemp® 2000: PliaTemp® 2000 insulating materials are composed of polymer and flame-resistant fibers that have a high Limiting Oxygen Index (LOI) and provide excellent heat and flame resistance. The composition of PliaTemp® 2000 insulation can be altered to meet specific thermal, acoustic, or structural requirements.

PliaTemp® 3000: High loft blend of proprietary fibers designed to maximize acoustic absorption and flammability properties. Primarily intended as a stand-alone material but can be used in combination with other materials.

PliaTemp® 5000: PliaTemp® 5000 Series insulation contains no chemical binders. *Recommended max operating temperatures do not correlate to the composition of the proprietary blend of fibers that have a high Limiting Oxygen Index (LOI), which provides excellent heat and flame resistance.

PliaTemp® 7000: Wet process proprietary blend of fibers designed for thin applications that require excellent dimensional stability in combination with good fire resistance characteristics. Primarily intended as a stand-alone material but can be used in combination with other materials.

PliaTemp® 8000: Wet process proprietary blend of fibers designed for applications that require acoustic absorption in combination with good fire resistance characteristics. Intended to be used as both a stand-alone material and in combination with other materials when higher levels of acoustic absorption are indicated. Airflow can be tuned to meet specific application needs.

Product Options

PRODUCT	DESCRIPTION	THICKNESS RANGE (MM)		WEIGHT RANGE (GSM)				AIR FLOW RESISTANCE RANGE (RAYLS)		MAX OPERATING TEMP. (DEG C)	ASTM G21 COMPLIANT (BACTERIA GROWTH)	K-VALUE AMBIENT TEMP (BTU·IN / HR·FT²·°F)
		MIN	MAX	MIN	MAX	UL94 V-0	UL94 5VA (PLAQUE & BAR)	MIN	MAX			
PliaTemp® 1000 Series	Flexible, rayon fiber-based needle-punched product designed for improved flammability performance. Primarily intended as a stand-alone material but can be used in combination with other materials.	1.5	7.0	170	950	Pass	Pass	—	<150	Up to 93°C	Yes	0.251 @ 8.4 pcf
PliaTemp® 2000 Series	Blend of proprietary fibers designed to maximize flammability properties while yielding good acoustic properties. Material can be configured to swell when exposed to heat. Primarily intended as a stand-alone material but can be used in combination with other materials.	3.0	50.0	175	1,000	Pass	Pass	50	375	No dimensional change up to 80°C; material can be configured to swell above 120°C	—	0.250 @ 1.75 pcf
PliaTemp® 3000 Series	High loft blend of proprietary fibers designed to maximize acoustic absorption and flammability properties. Primarily intended as a stand-alone material but can be used in combination with other materials.	6.0	50.0	175	1,000	Pass	Pass	25	350	Up to 80°C	Yes	0.256 @ 1.5 pcf
PliaTemp® 5000 Series	PliaTemp® 5000 Series insulation contains no chemical binders. *Recommended max operating temperatures do not correlate to the composition of the proprietary blend of fibers that have a high Limiting Oxygen Index (LOI), which provides excellent heat and flame resistance.	3.0	50.0	150	1,250	Yes	Yes	N/A	N/A	*85°C	Yes	N/A
PliaTemp® 7000 Series	Wet process proprietary blend of fibers designed for thin applications that require excellent dimensional stability in combination with good fire resistance characteristics. Primarily intended as a stand-alone material but can be used in combination with other materials.	0.50	2.0	150	500	Pass	Pass	2,500	10,000	Up to 285°C (material may show discoloration above 175°C)	Yes	N/A
PliaTemp® 8000 Series	Wet process proprietary blend of fibers designed for applications that require acoustic absorption in combination with good fire resistance characteristics. Intended to be used as both a stand-alone material and in combination with other materials when higher levels of acoustic absorption are indicated. Airflow can be tuned to meet specific application needs.	0.5	2.0	150	500	Pass	N/A	500	2,500	Up to 205°C (material may show discoloration above 150°C)	Yes	N/A

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at www.owenscorning.com.

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Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

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