

TECHNICAL DATASHEET

Section 1 - Identification of The Material Manufacture

Company Details:

Walther Strong & Company Ltd
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NG31 7DD

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Website: www.waltherstrong.com

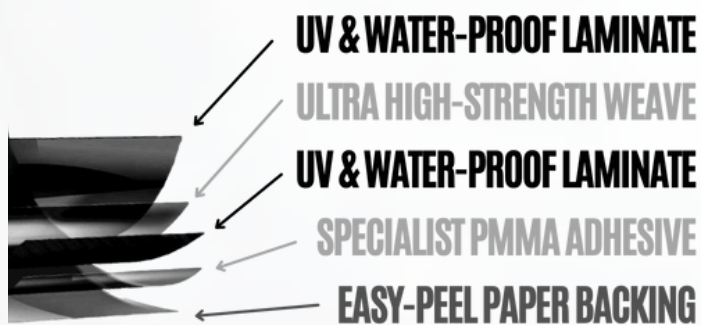
Email: enquiries@waltherstrongandco.com

Section 2 - Product Description

Walther Strong PMMA Tape is a high performance self-adhering designed and used for weatherproofing & preserving timber. Walther Strong PMMA Tape is constructed with a unique combination of high-density polyethylene cloth (HDPE) is laminated with low density polyethylene (LDPE) and proprietary PMMA adhesive. The functional PE cloth provides easy handling features such as, dimensional stability, high tensile strength, and high weather resistance. The PMMA adhesive sticks well to rough surfaces at both low and high temperatures (-6 ~ 190-degree F).

Section 3 - Structure

ADVANCED 5-LAYER TECHNOLOGY®



Section 4 - Key Features

- High dimensional stability – no wrinkles caused by temperature fluctuation
- Meets AAMA 711-07 Voluntary Specification for Self-Adhering Flashing Tape for Installation of Exterior Wall Fenestration Products, Type A (no primer), Class 3 (exposed to 176-degree F)
- Hand tear-able – no need to cut
- Nail Sealable: Passed AAMA-711-07 (ASTM D 1970)
- Repositionable – no wrinkles when applied

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- Clean – no black speck or stain, no asphalt smell
- Wide application temperature from -4 to 190-degree F.
- No tensile strength loss
- Very strong adhesion to rough surfaces
- Excellent stability
- Compatible with building sealants: Walther Strong PMMA Tape is inert against sealant polymers, synthetic rubber compound, polyurethane, and silicone

Section 5 - Properties (*typical values, not for specification or guarantee purpose)

90-degree peel adhesion on OSB – Results: 18.6 Lbs/in | AAMA 711-07 Specifications: >2.8 Lbs/in
90-degree peel adhesion on Aluminium – Results: 7.9 Lbs/in | AAMA 711-07 Specifications: >1.6 Lbs/in
90-degree peel adhesion on PVC – Results: 4.8 Lbs/in | AAMA 711-07 Specifications: >1.5 Lbs/in
90-degree peel adhesion on plywood – Results: 4.9 Lbs/in | AAMA 711-07 Specifications: >1.6 Lbs/in
90-degree peel adhesion on itself – Results: 3.8 Lbs/in | AAMA 711-07 Specifications: >1.6 Lbs/in
90-degree peel after aged by UV for 14 days – Results: 7.9 Lbs/in | AAMA 711-07 Specifications: >1.6 Lbs/in
90-degree peel after 7 day @ 50 degree C – Results: 7.8 Lbs/in | AAMA 711-07 Specifications: >1.6 Lbs/in
90-degree peel after 7 day @ 65 degree C – Results: 8.3 Lbs/in | AAMA 711-07 Specifications: >1.5 Lbs/in
90-degree peel after 7 day @ 80 degree C – Results: 7.9 Lbs/in | AAMA 711-07 Specifications: >1.5 Lbs/in
90-degree peel after water immersion – Results: 8.9 Lbs/in | AAMA 711-07 Specifications: >1.5 Lbs/in

Cold temperature Pliability - No visible sign of cracking

Nail Sealability prior to heat cycle - No water leakage

Nail Sealability after heat cycle - No water leakage

No water leakage Test Method: ASTM modified per AAMA 711-07

Aging test: 85% Adhesion and Tensile Strength after 15yrs*

Test Method: ASTM F 1980

***All values assume product has been stored and used in accordance with manufacture's recommendations

Section 6 - Cautions

- Avoid prolonged contact with skin. May cause irritation.
- Do not use as an electrical insulation tape.
- Test compatibility to construction materials before application if materials are unknown. This tape may damage surfaces and/or leave residue.
- Use only on clean, dry surfaces free of cracks, voids, and holes.

Section 7 - Product Use

Many factors are beyond the control of Walther Strong - the user's knowledge and control can affect the use and performance of PMMA Tape in a particular application.

Given the variety of factors that can affect the use and performance of PMMA Tape , the user is solely responsible for evaluating PMMA Tape and determining whether it is acceptable for a particular purpose and suitable for user's method of application.

Section 8 - Warranty and Limited Remedy

Walther Strong & Company Ltd warrants that PMMA Tape meets its product specifications for a period of 25 years from the date of application. If PMMA Tape does not conform to this warranty, the sole and exclusive remedy is an replacement of product only.

Walther Strong makes no other warranties or conditions express or implied, including but not limited to any implied warranty or condition of merchantability or fitness for use or any implied warranty or condition arising from a course of dealing, custom, or usage of trade.

Section 9 - Limitation of Liability

Walther Strong & Company Ltd will not be liable for any loss or damage arising from PMMA Tape, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contact, negligence or strict liability.

Section 10 - Typical Properties

Content	Unit	Value	Test Method
Thickness	mm	0.24	DTX method
Elongation	%	17	DTX method
Temperature Use Range	°C	-40 to 80	MCC Method ?
Breaking Strength	N/50mm	420	DTX method
180° Peel Adhesion	N/25mm	42	DTX method
Shear Adhesion	mm	1.4	DTX method

Section 11 - Appendix – AAMA Performance Test Result

Content	Unit	Value	Test Method
90° Peel Adhesion Anodized Aluminum	N/25mm	45.0	ASTM D3330
90° Peel Adhesion Plywood (APA Exposure 1)	N/25mm	25.3	ASTM D3330
90° Peel Adhesion Itself (Facing material)	N/25mm	-	ASTM D3330
90° Peel Adhesion OSB (APA Exposure 1)	N/25mm	17.5	ASTM D3330
90° Peel Adhesion Vinyl siding	N/25mm	19.8	ASTM D3330
Cold Temperature Pliability	n/a	No Cracking	ASTM D1970
Tensile Strength	N/25mm	205.0	ASTM D412
Resistance to peeling from itself	n/a	Pass	AAMA 711
Water Penetration Resistance Initial	n/a	No Leakage	ASTM D1970 Mod.
Water Penetration Resistance After thermal cycling	n/a	No Leakage	ASTM D1970 Mod.
Thermal cycling	N/25mm	42.0	ASTM D3330
Accelerated Aging With Ultraviolet Light Exposure	N/25mm	36.8	ASTM D3330
Elevated Temperature Exposure	N/25mm	32.3	ASTM D3330
Adhesion after Water Immersion Initial	N/25mm	42.0	ASTM D3330
Adhesion after Water Immersion After immersion	N/25mm	41.8	ASTM D3330

Section 1 - Identification of The Material Manufacture

Company Details:

Walther Strong & Company Ltd
EFI Business Park
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PE9 4LW

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Email: enquiries@waltherstrongandco.com

Section 2 - Hazards Identification

Classification of the substance or mixture - Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Section 3 - Composition / Information on Ingredients

- Polyethylene
- Poly(methyl methacrylate)
- Carbon Black
- Additives

Section 4 - First Aid Measures

General Advice	In the case of an accident or if you feel unwell, seek professional medical advice immediately. If or when symptoms persist, re-seek professional medical advice immediately.
If inhaled	Will not occur
In case of skin contact	Wash with plenty of soap and water. In the case of skin irritation or allergic reactions seek a physician.
In case of eye contact	Immediately flush with large amounts of water for at least 15 minutes. Get medical attention if irritation develops or persists.
If swallowed	If swallowed, immediately exhale. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	No information available.
Notes to First-Aiders	No information available
Notes to Physician	No information available

Section 5 - Fire-fighting measures

Suitable Extinguishing Media	Water Spray Alcohol Resistant Foam Carbon Dioxide Dry Chemical
Specific Hazards during Fire-Fighting	No information available
Hazardous Combustion Products	Carbon Oxides
Specific Extinguishing Methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened units. Remove undamaged units from fire area if it is safe to do so.
Special Protective Equipment for Fire-Fighters	In the event of a fire, wear self-contained breathing apparatus. Use personal protective equipment

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Will not occur. Not specified.
Environmental Precautions	Will not occur. Not specified
Methods and materials for containment and cleaning up	Will not occur. Not specified

Section 7 - Handling and StorageTreatment

Technical Measures	None in Particular
Local and general exhaust ventilation	Not required for use in normal temperature. Provide adequate ventilation when performing high-temperature processing
Remarks	Use caution and protective gloves to avoid cuts with edges of tape and / or tape liners
Precautions for Safe Handling	None in particular

Storage

Technical Measures	None in Particular
Storage Conditions	Store in a cool, dark place [below 107F] and with normal humidity.
Storage conditions to avoid	Avoid High Temperatures or High Humidity
Imcompatible Materials	Non information available
Conditions for safe storage including any incompatibilities	Shipping package

Section 8 - Exposure Controls / Personal Protection

Control Parameters	Unset
Permissible Concentration	Unset
Appropriate Engineering Controls	Not Required
Personal Protective Equipment [PPE]	Respiratory Protection: Not Required Hand Protection: Not Required Eye Protection: Not Required Skin Protection: Not Required
General Hygiene Consideration	None under normal use conditions

Section 9 - Physical and Chemical Properties

Physical State	Roll
Colour	Black
Odour	None in particular
pH	No data available
Melting point / Freezing point	No data available
Flash Point	No data available
Autoignition Temperature	Upper: No data available Lower: No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	No data available
Solubility	Insoluble in water
Partition Coefficient	No data available
Decomposition Temperature	No data available

Section 10 - Stability and Reactivity

Reactivity	Stable under normal conditions of use and storage
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No information available
Hazardous Decomposition Products	No information available

Section 11 - Toxicological Information

Acute Toxicity	No information available
Skin corrosion / irritation	No information available
Serious eye damage / eye irritation	No information available
Respiratory Sensitization	No information available
Germ Cell Mutagenicity	No information available
Carcinogenicity	No information available
Reproductive Toxicity	No information available
Specification Target Internal Organs / Systematic Toxicity [Single Exposure]	No information available
Specification Target Internal Organs / Systematic Toxicity [Repeated Exposure]	No information available
Aspiration Hazard	No information available

Section 12 - Ecological Information

Persistence and Degradability	No information available
Bioaccumulation Potential	No information available
Mobility in Soil	No information available
Ozone Depletion Potential	No information available
Other Adverse Effects	No information available

Section 13 - Disposal Considerations

Waste Treatment Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations. When burning, use an incinerator which satisfies its technical guidelines [the residue time is 2 seconds or more at a temperature of 800 Centigrade or more]
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 - Transport Information

National Regulations	Transport Hazard Class: Not Applicable UNRTDG: Not regulated as a dangerous good IATA-DGR: Not regulated as a dangerous good IMDG-Code: Not regulated as a dangerous good
Special Precautions	Do not store long term in high temperatures or leave outdoors

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The information provided in this Material Safety Datasheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage and transportation, disposal and release and shall not be considered a warranty of quality specification of any type. The information provided relates only to the specific material identified at the top of this MSDS and may not be valid when the MSDS material is used in combination with any other materials or in any processes, unless specified in this text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the end user's product if applicable.

End of Data Sheet