AIRTECH
ADVANCED MATERIALS GROUP

MATERIAL SAFETY DATA SHEET

Wrightlon® 5200 – Issue Date: August 1, 2013

SECTION I - PRODUCT IDENTIFICATION

Trade Name: **Wrightlon® 5200**
Product Class:
Supplier: **Airtech International, Inc.**
5700 Skylab Road
Huntington Beach, CA 92647
Telephone: 714-899-8100
Fax: 714-899-8179

Emergency Telephone: **800-424-9300**

CERLA Ratings: (scale 0-3)	Health = 2	Flammability = 1	Reactivity= 0
NFPA Ratings: (scale 0-4)	Health = 2	Flammability= 1	Reactivity= 0

SECTION II - HAZARDOUS INGREDIENTS

Tetrafluoroethylene-Ethylene Copolymer

CAS #:	68258-85-5	**Percent by weight:**	100
OSHA TLV-PEL:	Not established		
ACGIH TLV-TWA:	Not established		

5200 Blue

Phtalocyaine Blue:	147-14-8	**Percent by weight:**	.03
Titanium Dioxide:	13463-67-7		.06

5200 Red
N/A

Potential Health Effects:
Inhalation: High concentrations of airborne dust may cause irritation to the respiratory tract.
Ingestion: Ingestion may cause irritation to the gastrointestinal tract.
Eye Contact: May cause irritation to the eyes due to mechanical abrasion of particles.
Skin Contact: Generally does not cause skin irritation.
Medical Conditions: None known.

SECTION III - PHYSICAL DATA

Description:	Blue or Red film - odorless
Melting point:	250-270°C
Boiling point:	Not applicable
Specific gravity:	1.60- 1.90
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Insoluble
Solubility in other solvents:	Insoluble

SECTION IV - FIRE AND EXPLOSION DATA

Flash point: Does not flash **Method Used:** Open Cup
Extinguishing media: Water, foam, dry chemical, CO_2
Special Fire Fighting Procedures:
Does not burn without an external source of fuel. In a fire situation, employ protection against hydrogen fluoride.
Unusual Fire and Explosion Hazards:
Will burn only in an oxygen-enriched atmosphere with an ignition source present

SECTION V - HEALTH HAZARD DATA

Routes of Entry: Skin and eyes
Carcinogenicity: No

Emergency and First Aid Procedure:
In case of Inhalation:
Film is not respirable. Vapors and fumes that may be produced when thermally decomposed may cause polymer fume fever, with cold and flu-like symptoms of chills and fever. First Aid: If exposed to fumes from overheating or decomposition, move to fresh air. Consult physician.
In case of Skin Contact:
Wash material from the skin with plenty of soap and water.
In case of Ingestion:
Non-toxic. Not a likely route of exposure. First Aid: No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.
In case of Eye Contact:

Non-toxic. Not a likely route of exposure. First Aid: Mechanical abrasion the likely injury route. Flush with water and consult a physician if necessary.

SECTION VI - REACTIVITY DATA

Stability: Stable
Incompatibilities: Reacts with molten alkali metals and finely divided magnesium and aluminum at temperatures above 425 Deg. C
Haz. Decomposition: Thermal decomposition of this product (at tempartures above 300 C.) will generate perfluoro-olefins.
Products: Hydrogen fluoride, which is corrosive.
Polymerization: None under normal processing.

SECTION V11 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use media suitable for surrounding fire. Products does not support combustion or flame.
Unusual Fire and Explosion: None known.
Products:
Flash point (°F): Not applicable
Flash point (°C): Not applicable
Autoignition Temperature (°F): Not applicable

Flammable Limits in Air:
Lower (%): Not applicable
Upper (%): Not applicable
Firefighter Protective Equipment: Wear a self-contained breathing apparatus (SCBA) to prevent inhalation of toxic thermal decomposition products.
Specific Methods: Evacuate area and restrict access to area. Use fire fighting methods suitable for surrounding fire. This product does not readily burn. Keep containers cool with water spray if possible.

SECTION VII - SPILL, LEAK, DISPOSAL PROCEDURE

Steps to be taken in case material is released or spilled:
Review Fire and Explosion Hazard Data, Emergency First Aid Procedures and Control Measures before proceeding with clean up. Use appropriate Control Measures during clean up. Pick up to avoid slipping hazard.

Waste Disposal Method:
Landfill preferred disposal method. If incinerated, gaseous products must be removed by alkaline scrubbing. Disposal methods must conform to federal, state/province, and local regulations.

TSCA Section 8(b) - Inventory Status - Chemical components listed on TSCA Inventory.

SECTION VIII – CONTROL MEASURES

Ventilation:
Provide local exhaust during processing.
Respiratory Protection:
None required under normal processing conditions.
Eye/Skin Protection:
Safety glasses
Other Precautions:
Avoid contamination of tobacco products. Above 230°C toxic gaseous products can be produced. Provide good ventilation or respirator if there is a probability of exceeding the 230°C.

SECTION IX – SPECIAL PRECAUTIONS

Precautions to Be Taken in Handling and Storing: Avoid contamination. Keep containers closed.

See section

USER'S RESPONSIBILITY

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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Data Sheet

WRIGHTLON® 5200

High performance fluoropolymer release film

DESCRIPTION

WL5200 release film has an excellent elongation which ensures that it will conform to complex curvatures. It is capable of cure temperatures up to 500 °F (260 °C). This film will release from most resin systems and will provide a glossy finish when used directly on the laminate.
All standard perforations are available. Please see our perforation table in this section.

TECHNICAL DATA

		Test method
Material type	ETFE	
Elongation at break	350 %	ASTM D 882
Tensile strength	7000 psi (48 MPa)	ASTM D 882
Maximum use temperature	500 °F (260 °C)	
Materials to avoid	Compatible with most resin systems	
Yield	22.8 m^2/Kg/25.4 µm	
Color	Blue/Red/Clear	
Shelf life	Unlimited	

SIZES

Thickness	Width	Length	Weight / roll	Forms available*
0.0006 inch (15 µm)	48 inches (1.22 m)	600 feet (183 m)	13 lbs (6 Kg)	SHT (Blue)
0.001 inch (25 µm)	48 inches (1.22 m)	600 feet (183 m)	22 lbs (10 Kg)	SHT (Blue)
0.001 inch (25 µm)	60 inches (1.52 m)	600 feet (183 m)	26 lbs (12 Kg)	SHT (Blue)
0.002 inch (25 µm)	60 inches (1.52 m)	300 feet (91 m)	26 lbs (12 Kg)	SHT (Blue)
0.001 inch (25 µm)	48 inches (1.22 m)	600 feet (183 m)	22 lbs (10 Kg)	SHT (Red)
0.001 inch (25 µm)	50 inches (1.27 m)	500 feet (152 m)	19 lbs (9 Kg)	SHT (Red)
0.001 inch (25 µm)	60 inches (1.52 m)	417 feet (127 m)	19 lbs (9 Kg)	SHT (Red)
0.001 inch (25 µm)	60 inches (1.52 m)	600 feet (183 m)	26 lbs (12 Kg)	SHT (Red)
0.002 inch (50 µm)	50 inches (1.27 m)	250 feet (76 m)	19 lbs (9 Kg)	SHT (Red)
0.001 inch (25 µm)	120 inches (3.04 m)	600 feet (183 m)	52 lbs (24 Kg)	CF to 60 inches (Blue)

NOTES

> Elongation at break and tensile strength are measured in machine direction.
> Maximum use temperature is dependent upon the duration at maximum temperature and is process specific. Airtech recommends testing prior to use.
> Other sizes available upon request. Minimum order may be required.
> Custom designed shapes and sizes are available to fit your individual requirements.
Please consult Airtech for further information.

* SHT = sheeting, CF = centerfold, LFT = lay-flat tubing, LFT-G = lay-flat tubing gusseted.

Last updated : 2014-02-25
Catalog position : Release films