



# WONPOONG CORPORATION

# **Information Memorandum**

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Company Overview Our Traces Organizational Structure Presence

# II. Products

Overall Portfolio Manufacturing Process Sign Media Industrial Tarpaulin Environment-Friendly Material Roofing Membrane Material Marine Fabrics

# III. Appendix



## **Company Overview**

Wonpoong has continually evolved and expanded its highly diversified portfolio of solutions. While improving our product spectrum, we have created measurable and meaningful value for our customers, employees and shareholders. Our core values are customer orientation, integrity, accountability, environmental protection, and innovation.

By listening and responding to market demands, Wonpoong has combined its long-standing industry knowledge and commitment to sustainability to develop some of the most innovative product solutions. Armed with a state-of-the-art R&D Center and the ISO:9001 and ISO:14001 certified manufacturing facilities, we have strived to remain at the forefront of the industry.

0	OBusiness Volume (as of Dec. 31 2017)O				
Summary Financial Statements					(Unit: Million USD)
	2013	2014	2015	2016	2017
Total Assets	68.7	69.8	72.4	75.2	75.2
Total Liabilities	12.2	9.9	9.0	8.2	7.6
Total Stockholder's Equity	56.4	59.9	63.4	67.0	67.6
Sales	76.6	71.3	71.8	65.2	62.3
Operating Income	4.5	4.6	8.3	5.2	3.0
Net Income	4.3	4.4	4.6	5.0	2.3



## Our T<u>races</u>

- Dec. 2016 Completed Okcheon factory (Factory II)
- Mar. 2015 Awarded < the Order of Industrial Service Merit, Silver Tower>
- Jun. 2012 Incorporated the joint venture in Hangzhou, China
- Jun. 2011 Awarded <the Production Innovation Award>
- Dec. 2009 Invested in subsidiary, Wonpoong C&S
- Oct. 2009 Awarded <Chungbuk Small and Mid-Cap Award>
- Mar. 2008 Awarded <the National Tax Service Director's Award>
- Dec. 2006 Acquired INNOBIZ certification (innovative technology)
- May 2006 Acquired ISO certification14001 (management system)

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- Nov.2005 Awarded <\$50M Export Tower>
- May 2005 Established China branch, Wonpoong China
- May 2003 Acquired ISO certification9001 (product quality)
- Dec. 1992 Listed on KOSDAQ: 008370
- Mar. 1991 Established Malaysia branch, Wonpoong Malaysia
- Mar. 1990 Changed the company name to <Wonpoong Corporation>
- Jan. 1988 Completed Wonpoong R&D Center
- Nov. 1987 Awarded <\$10M Export Tower>
- Jan. 1973 Established Wonpoong Chemical Co. Ltd by Won-Son So





# **Organizational Structure**





## Presence



## Headquarters

Wonpoong bldg. 343 Gonghang-daero, Gangseo-gu, Seoul, Republic of Korea

Tel : +82-2-3661-8112 Fax:+82-2-3661-8111

## **R&D** Center



**High-Performance Polymers Research** 

Chemical engineering for technical textiles product developments with PVC, TPU, TPO, EVA composites Innovative approach to R&D of industrial textiles with calendering and laminating technologies

Industrial Fabrics



**Eco-Friendly Products** 



## **Cheongju Factory**

5 Jikji-daero 474beon-gil, Heungdeok-gu, Cheongju-si, Chungbuk, Republic of Korea

Tel:+82-43-272-8388 Fax: +82-43-272-8387



Continuous development of environmentally friendly solutions





## **Okcheon Factory**

42 Injeong 1-gil, Cheongsan-myeon, Okcheon-gun, Chungbuk, Republic of Korea

Tel:+82-43-733-5111 Fax: +82-43-733-5109

**Overall Portfolio** 





## **Manufacturing Process**

### C-1 Plant (PVC, TPU, TPO Laminated Polyester/Glass Fiber Fabrics)

Capacity: Approx. 2,000,000 SQM/Month Installation: Max. 2.46M Film Width 4 Bowl Calender, Emboss Laminating 2.2M Machine, 5 Color Printing Machine

### C-2 Plant (PVC, TPU, TPO Laminated/Sol-Lami Polyester Fabrics)

Capacity : Approx. 8,500,000 SQM/Month Installation: Banbury Mixer, 4.5M Wide 4 Bowl Calender (Max 5.7M wide), Emboss/Laminated Machine (5.5M Wide, 4.52M Wide, 3.6M Wide)

### C-3 Plant (PVC, TPU, TPO Coated Polyester Fabrics)

Capacity: Approx. 1,000,000 SQM/Month Installation: 2 Bowl Melt Coating Machine 2,400mm, Surface/Lacquer Printing Machine 2,700mm(Acryl/PVDF)

### C-5 Plant (PVC, TPU, TPO Calendered Film/Sheet)

Products: Soft PVC Transparent Film/ Half-Rigid PVC Film, Non PVC Films – TPO, TPU, EVA etc. Installation : 3.6M Wide 5 Bowl Calender (Max. 3.2M wide)



Mixing

































## Manufacturing Process (C-6 Plant)



Okcheon factory (factory II) is equipped with highly specialized manufacturing facilities. Our advanced manufacturing system enables us to produce of high quality drop stitch fabric for various inflatable products. The construction was completed in September 2016, and the 66,200 square meter(712,570 square feet) expansion has quadrupled the size of original factory facilities in Cheongju.

With over four decades of industry experience, our staff has industry-comprehensive knowledge. This experience, together with our advanced manufacturing system and long-standing industry knowledge, allows us to provide high-quality products with stable quality control.

Our R&D process is continuous. By testing and developing different materials, we can provide the most innovative solutions with highly technological content.



# Manufacturing Process(C-6)

Mixing



Calendering



Sol Coating &

Tentering

Laminating



Inspection







# Sign Media



## ✤ Features

- Excellent light transmission and even light distribution
- High-quality smooth and glossy surface
- No distortion of the displayed image
- Complete light blocking for blockouts
- Wide compatibility with various digital printers
- Excellent printability
- Weather-resistant and durable

## Options

- Anti-wicking treatment
- Anti-static treatment
- Fluorine surface treatment
- Acrylic surface treatment
- Fire retardant treatment
- Cold resistant treatment

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Anti-mildew treatment



# Sign Media – Applications



Textile





Silkscreen





## **Industrial Fabrics**



### Features

- Excellent Weather and UV Resistant
- Dimensionally stable and Easy to Fabricate
- Highly Strong and Durable.
- High Tensile/Tear Strength
- Strong Adhesion
- Weather-resistant and durable.

## Options

- Anti-Wicking Treatment
- Anti-Static Treatment
- Fluorine Surface Treatment
- Acrylic Surface Treatment
- Cold resistant treatment
- Anti-mildew treatment





Innovative geosynthetic solutions for applications in the primary, civ



# Industrial Fabrics – Applications





**Transparent/Translucent Fabric** 



**Inflatable Fabrics** 



Structure Tarp



**Container Bag** 

**Agricultural Fabrics** 



\* NOTE : Different Color Customization and wide range of options Available











# Industrial Fabrics – Applications



**Truck Tarp** 







**General Tarp** 





**Movie Screen** 

### **Awning & Annex**

## Applications

- General Tarp
- Truck Tarp
- Structure Tarp
- Inflatable
- Dock Seal
- Awning & Annex
- Tent Tarp
- Transparent/Translucent Fabric
- Pool & Spa
- Agricultural
- Sports & Leisure
- **Container Bag**
- Movie Screen
- Geomembrane
- **Building & Construction**





# **Eco-friendly Materials**





## **Eco-friendly Materials – Sign Media**



### The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

### Therefore, this United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

David J. Kypo

tar of the United States Passes and Trademark Office

Since Wonpoong has focused on green technology, we have invented and obtained a patent for "INNOGREEN," the 100% recyclable and phthalate free sign media. We have solved the respective drawbacks of PVC material and Polyolefin-based composite material, and have introduced the perfect green solution.

### PVC material:

Due to the emission of endocrine-disrupting chemicals, reinforced PVC cannot be recycled in the mechanical waste stream.

### Polyolefin-based composite material:

Generally, polyolefin- based composite materials have "non-polar" surfaces, thus it is impossible to paint, coat or print on them.

INNOGREEN is flexible and lightweight, and also provides high-quality printability with a smooth surface. It has higher resistance to chemicals, more durability, and increased cold and weather resistance.

Since it is a non-PVC material, it enables mechanical recycling. Pallet-grinded INNOGREEN is reprocessed and used to form new plastic products.

# INNOGREEN®



## **Eco-friendly Materials – Industrial Applications**







### Features

- Excellent Weather-Resistant
- Remarkable Resistance to Chemicals, Oil, and Water
- Highly Durable and Elastic
- 30% lighter than PVC material
- Eco-Friendly, Non-PVC Solutions
- Non-Toxic (6P Free / 3P Free) Solutions Available
- Complying with FDA's Food Contact Substances regulations

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Complying with AS/NZS 4020:2005 Standards

### Applications

- Bulk Container
- Oil boom
- Flexible Tank
- Drinkable water liner
- Food Container
- Gym mattress



## **Roofing Membrane**

# SUPERGUARD

**TPO ROOFING / WATERPROOF SYSTEM** 

# SuperGuard<sup>™</sup> Single-ply Roofing System

## Asia's first TPO Roofing membrane solutions

Wonpoong Corp developed thermoplastic polyolefin (TPO) sheet SuperGuard<sup>™</sup> for the first time in Asia, and also achieved the first KS certification as synthetic polymer waterproof sheets. Our product meets ASTM, EN, DIN, JIS standards and provides the high-quality roofing membranes solutions.

Designed to be installed in one layer is the main characteristic of **Single-ply roofing system**. It has great flexibility and superior resistance to UV, compared to other products. Single-ply roofing system can be applied to commercial buildings with low sloping flat roofs.

SuperGuard <sup>™</sup> roofing system is highly durable and also costefficient. Since it provides great weatherability and highstrength physical properties, it remarkably reduces the maintenance costs.



ROOFING MEMBRANE

WATERPROOF

HOT AIR WELDING



# **Roofing Membrane – Applied examples**

### IKEA

Incheon International Airport terminal 2



SuperGuard<sup>™</sup> TPO roofing membrane is a non-PVC solution, which enables the mechanical recycling of post-use material. It is not only an environmentally friendly solution, but also a very reliable solution; SuperGuard<sup>™</sup> membranes are highly flexible and easy to install. It also provides great weatherability and UV resistance.





# Marine Fabrics – Drop-Stitch Fabrics



## Features

- Specialized Manufacturing System for Marine Fabrics
- Optimized Weight-to-Stiffness Ratio
- Smooth Surface
- Structurally Stable
- Flexible and Easy-to-Fabricate
- Highly Durable
- UV Resistant
- Weather Resistant

## Options

- Anti-wicking treatment
- Anti-static treatment
- Fluorine surface treatment
- Acrylic surface treatment
- Fire retardant treatment
- Cold resistant treatment
- Anti-mildew treatment



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# Marine Fabrics – Boat Fabrics



## ✤ Features

- Air-tightening treatments applied (seam tape gluing process can be exempted)
- Smooth Surface
- Structurally Stable
- Flexible and Easy-to-Fabricate
- Highly Durable
- UV Resistant
- Weather Resistant

## Options

- Anti-wicking treatment
- Anti-static treatment
- Fluorine surface treatment
- Acrylic surface treatment
- Fire retardant treatment
- Cold resistant treatment
- Anti-mildew treatment





# Marine Fabrics-Applications



**Gymnastic mattress** 







Pasture mattress





# Appendix



Sign and Digital Media

Industrial Fabrics

Drop-Stitch Fabric

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Geosynthetic Material

