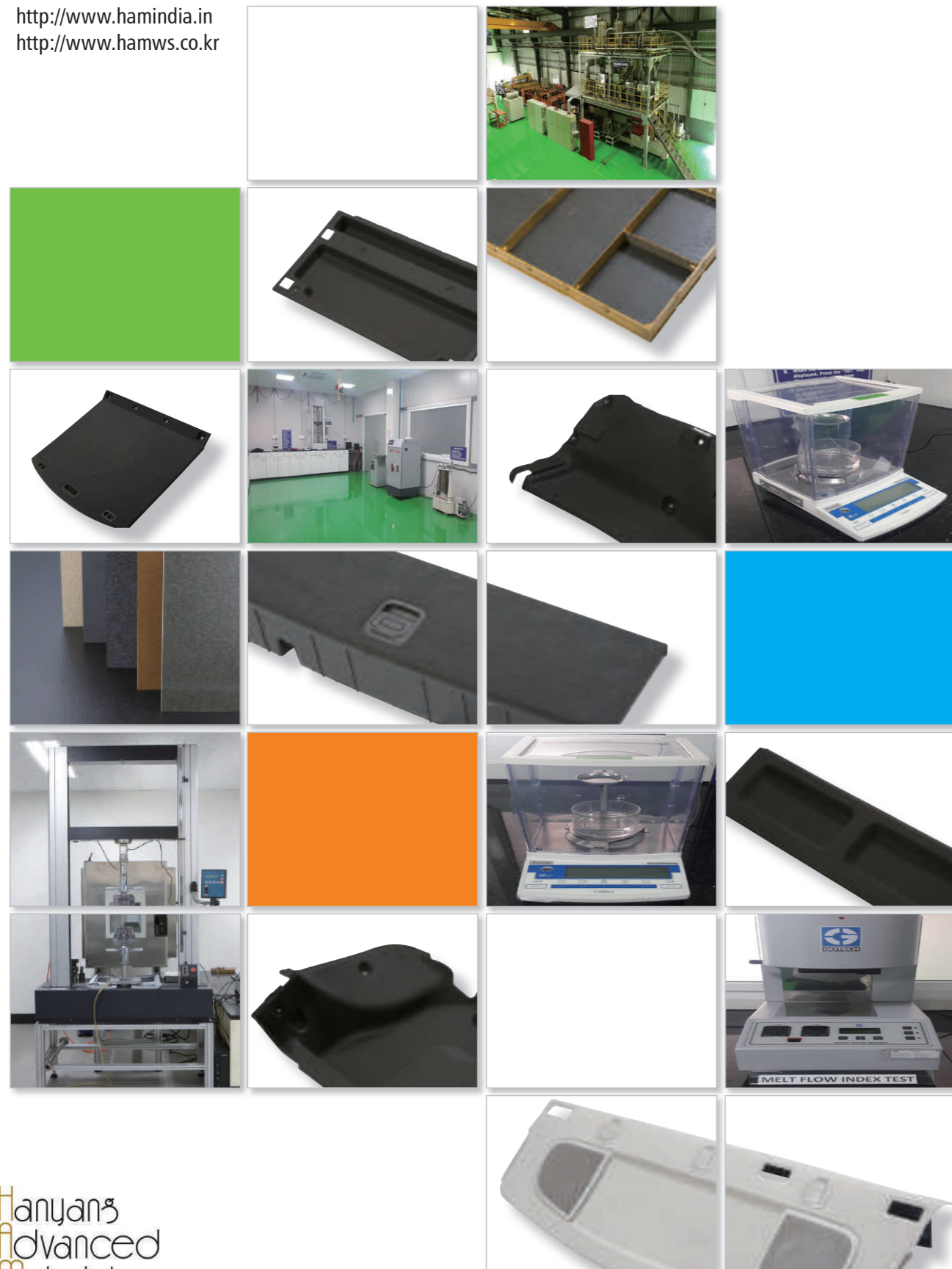


<http://www.hamindia.in>  
<http://www.hamws.co.kr>



**Hanyang  
Advanced  
Materials**

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The Best Material Solution.  
**HANYANG ADVANCED  
 MATERIALS INDIA PVT LTD**

HAM is always with you in any place of the world disseminating passion and faith supported by endless research and development of new technology.



## HANYANG ADVANCED MATERIALS INDIA PVT LTD

2017. 10 Found India company, Chennai(Hanyang Advanced Materials India PVT LTD responds actively to the change of market and provides best quality and service for our customers.

## HANYANG ADVANCED MATERIALS CO., LTD

HANYANG ADVANCED MATERIALS INDIA PVT LTD. was co-founded with HANYANG CHEMICALS (HANWHA CHEMICAL CORPORATION) and Belgium's SOLYAY in 1988 to provide and to meet the demand of high-tech plastic complex materials for the fast-growing Korean automotive industry.

Our Natural Plastic Composite Sheet product lines (NPS) are made from a series of naturally sourced ingredients mixed with polypropylene and other types of engineered plastics, providing reliable performance and benefits to our customers globally.

Hanyang takes innovation very seriously. Our NPS series are simple and productive in forming interior auto components, and show excellent physical properties and mold-ability with thermoforming process. All our products are non-toxic and eco-friendly. NPS scraps are 100% recyclable and reusable, helping our industry to reduce waste and to protect our environment.

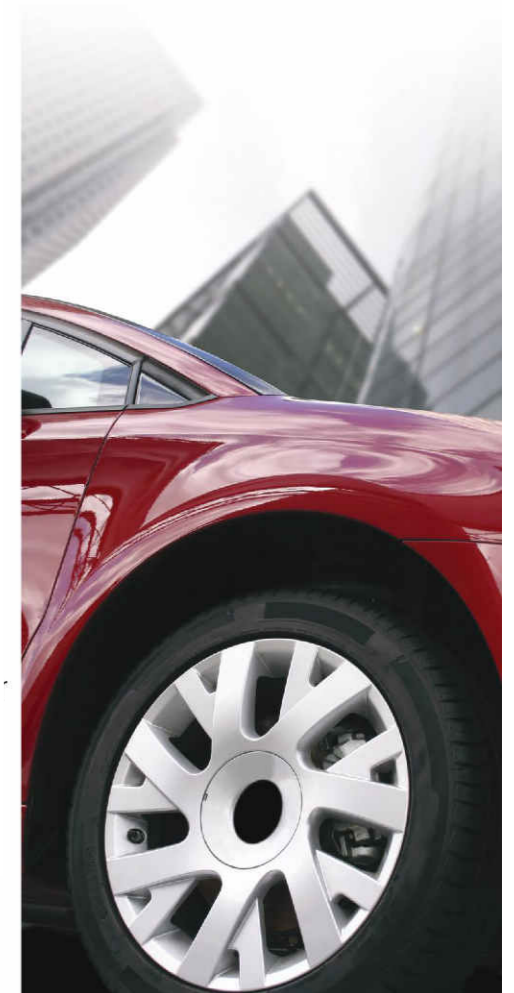
We are dedicated to respond actively to the customer's needs by emphasizing continuous research and development. H.A.M. focuses on creating economical values for our industry and providing safer and human friendly products to our society.



Hanyang's  
Advanced  
Materials

## The history of HANYANG ADVANCED MATERIALS INDIA PVT LTD

- 2017. 10 Found India company, Chennai (Hanyang Advanced Materials India PVT LTD)
- 2013. 04 Increase the part-forming line CAPA / 6 line
- 2012. 05 Development of eco-friendly Bamboo stock® (improved VOC & low weight)
- 2012. 03 Increase the part-forming line CAPA / 5 line
- 2011. 05 Increase the facility of extrusion CAPA/ 30,000 tons a year
- 2010. 05 Start finished part business (thermoforming process)
- 2008. 09 Development of a series of outer layer materials. Extension of extrusion facilities for producing 200,000 tons per year
- 2007. 10 Development of sound-absorption materials
- 2006. 11 Found technical R&D center
- 2005. 11 Development of shock-resistant, sound-absorbing, and sound-insulating materials
- 2004. 05 Develop inflammable enhanced materials,  
Change the company's name / HANWHA -> HANYANG
- 2003. 12 The second foundation/ Separation from HANWHA Group
- 2003. 10 Develop odor reduced materials
- 2003. 06 Develop the blow molding technology
- 2002. 01 Develop Bamboo stock® (BPS)
- 2001. 03 Acquire the recycling mark from the Ministry of commerce,  
Industry and Energy
- 1999. 06 Develop recycling board
- 1998. 08 Develop dry materials (Mold, Home door)
- 1996. 02 Acquire the certification of E-mark (Ministry of Environment)
- 1993. 06 Develop Trunk Liner Sheet
- 1989. 04 Start commercial production of car interior part /  
3,000 tons a year
- 1988. 06 Found HANYANG MATERIALS CO., LTD. HANWHA CHEMICAL



## Door Trim



## Trunk Trim



## Covering Shelf



## Package Tray



## Luggage Cover



## Trunk Mat



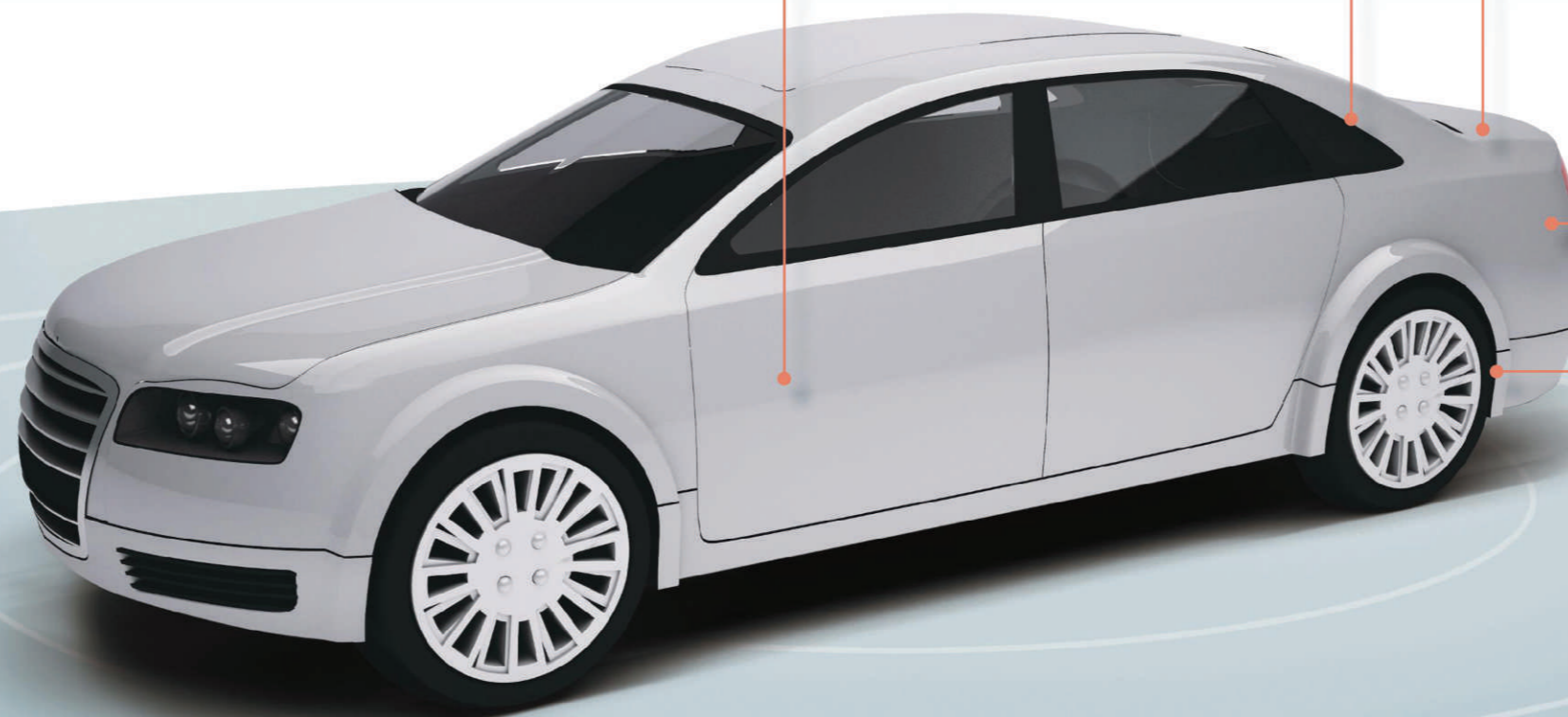
## Seat Back



## Wheel Guard



## Pillar



Others	Applied cases
Automobiles	Console boxes, Anchor hook boards, Under cover
Eco-friendly building materials	Molds, Interior doors, Floorings
etc.	Containers, Trays for food products and for industrial use

# Specification & Property



## NPS Types

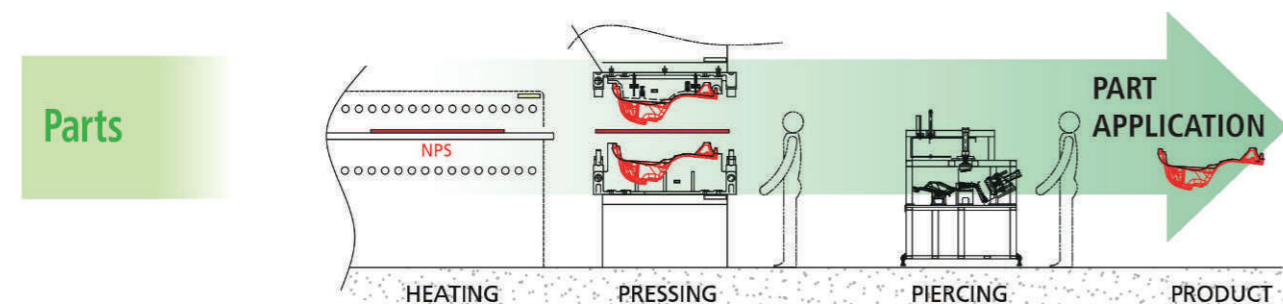
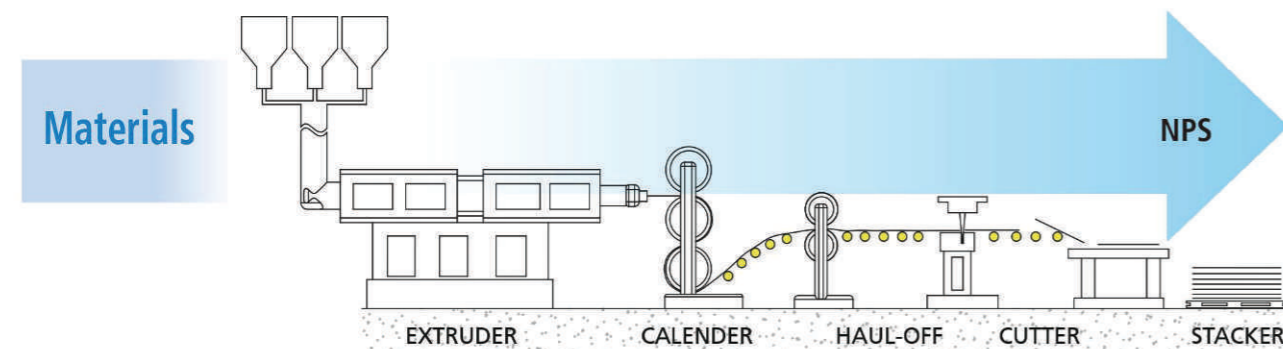
Type	Composition	Specific Gravity	Flexural Strength (kgf/cm <sup>2</sup> )	Flexural Modulus (kgf/cm <sup>2</sup> )	Tensile Strength (kgf/cm <sup>2</sup> )	Usage
WPS (Wood Plastic Sheet)	PP 50% Wood Flour 50%	1.15±0.05 1.0±0.02 1.1±0.05	450 350	31,000 22,000	220 170	Standard Products Door Panel, Rear Shelf, Etc.
TLS (Trunk Liner Sheet)	PP 80% Wood Flour 20%	1.02±0.02	330 280	17,000 11,000	200 150	Inter-shock and flexibility enhanced Product Trunk Trim, Etc.
WPS-NS (WPS New Series)	PP 50% Wood Flour 30% Odor Enhancer 15%	1.15±0.02	490 370	33,000 25,000	240 190	Odor reduced Door Panel, Rear Shelf, Etc.
BPS (Bamboo Plastic Sheet)	PP 50% Bamboo Flour 42% Odor Enhancer 8%	1.06±0.02	720 600	37,000 29,000	380 280	Enhanced hardness and make it lighter Door Panel, Covering Shelf, Etc.

## Physical Property

Low water absorption rate 0.3% , dimensional stability  
High strength & Modulus, stiffness / ecofriendly-low weight

## Wide variety of use

It can be changed as PP(Olefin resin) / Wood flour(Natural fiber) component ratio  
Thickness range: Minimum 0.8 to Maximum 5mm (may vary, depending on the type and the contents of the natural fibers)



## PATENT / CERTIFICATION



## RD / Quality System



## Major Customers

