

- **P.A.R.K. Industries Private Limited**



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P.A.R.K FILTER MEDIA INTRODUCTION

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P.A.R.K FILTER MEDIA INTRODUCTION



BRINGING INNOVATIONS IN NONWOVENS TO LIFE



PARK GROUP

35 m€

Annual Sales FY 2021

1000+

Employees

10+

Manufacturing Units

1997

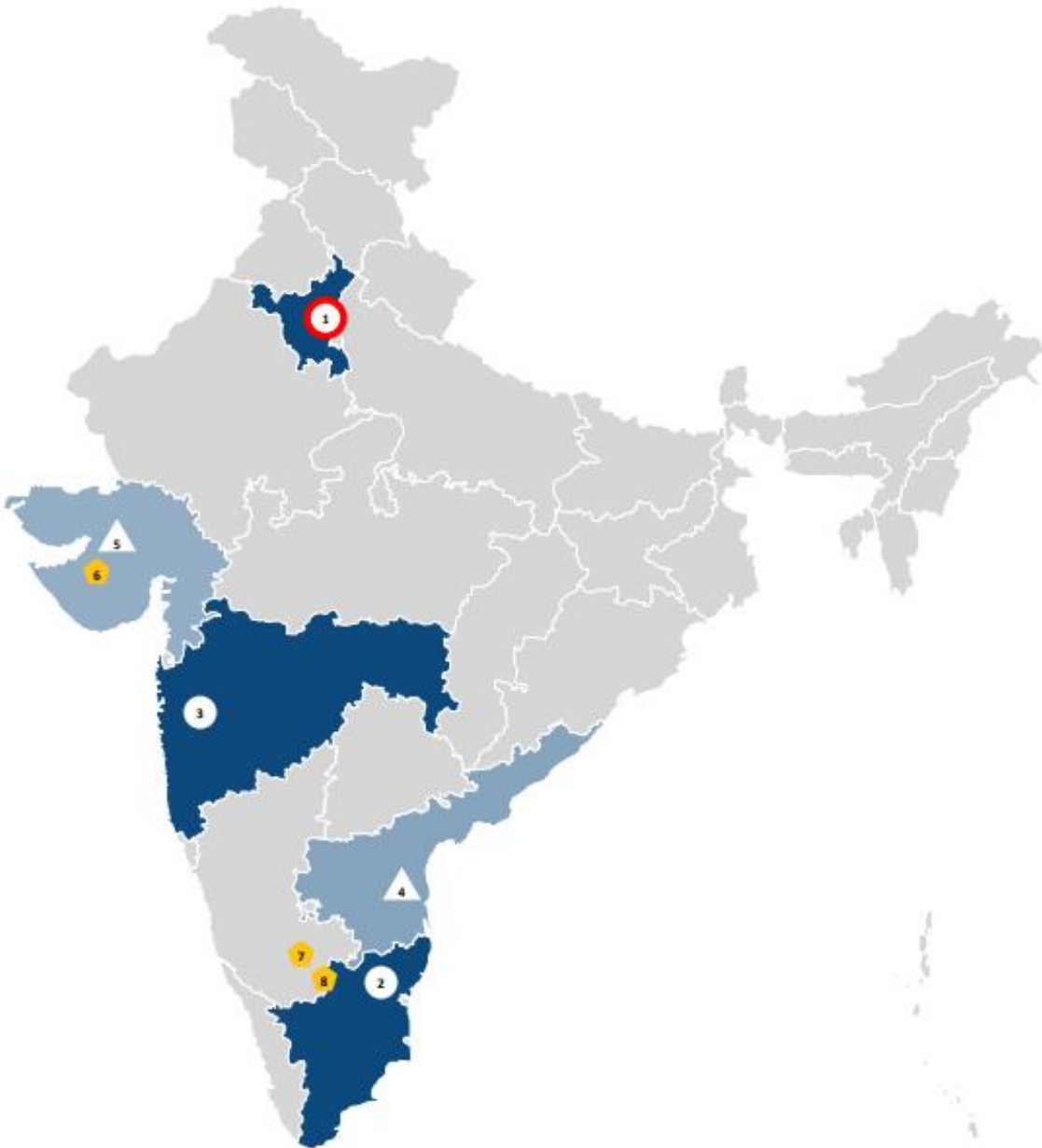
Founding Year

Our Valuable Clients



PARK FOOTPRINT IN INDIA

#	Location
1	Panipat (5 units)
2	Chennai (3 units)
3	Pune (1 unit)
4, 5	Under expansion (4) Anantapur for KIA (5) Becharaji (Gujarat)
6, 7, 8	Warehouses near customer locations (6) Sanand (GJ) (7) Bengaluru (KA) (8) Hosur (TN)



Plant View

Panipat Plant



Chennai Plant



Pune Plant



Begampur Plant

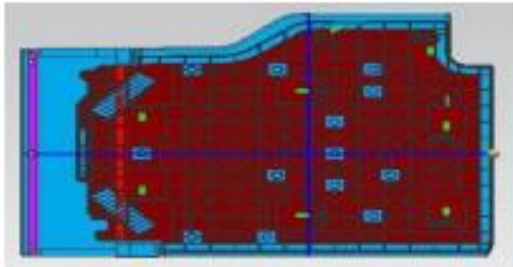
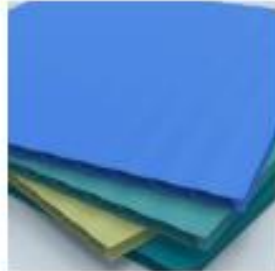


Location	Company Name	Manufacturing of	Capacity	Consumption
Panipat	Unit 298	Thinsulate forming / Felt production	75,000 Strokes	35,000 Strokes
	Unit 484	Mask	17 lakhs pieces	5 lakhs pieces
	Essar Industries	Extrusion / EPP / EPS Process (PP Spunbond / Wire band / Scuff plate/ J hooks)	Extrusion Profiles-10Lakh meter/month; Spun Bond 250T/Month; Scuff plate 25000 car sets; Sun Roof Drain Hoses 500,000 m/ Month; EPP injection Molding- 50T/ month	Extrusion Profiles-5Lakh meter/ month, Spun Bond 120T/Month, Scuff plate 12000 car sets; Sun Roof Drain Hoses 250,000 m/ Month; EPP injection Molding- 25T/ month
	Bhanisal (Plant)	Needle punch / Stitching	3.5 Lakhs Rmtr	2.0 Lakhs Rmtr
	Park Industries pvt ltd (Begampur)	Filteration / Meltblown		
Chennai	Park Industries Pvt Ltd	Felt Production/ Wood composite/ Forming and Trimming / Board Luggage/ Drain hose and felt Assy	Felt production - 505 M. ton, Wood Composite - 200 M. Ton, Forming - 44800 strokes, Board luggage - 3900 nos., Drain hose - 18200 Nos.	Felt production - 400 M. ton, Wood Composite - 100 M. Ton, Forming - 20400 strokes, Board luggage - 1560 nos., Drain hose - 10200 Nos.
	Park Felts Unit 4	Resin Felt Production	24 hours operation (3 shift) 200 M.ton	8 hours or 12 hours operation (1 shift) 60 to 80 M.ton
	Park Felts Unit 5	EPP / Injection Moulding	30 TONN-3 T BOILER, 45 TONN- 5T BOILER	21 TONN LAST MONTH, AVG 24 TONN
Pune	Blue Jay	Needle punch/ Coating Line/ Calendring Line/ Press Machine	Needle punch: 2.5 Lakhs R-mtr/	1.5 Lakhs R-mtr
Andhra Pradesh	Park Industries Pvt Ltd	Forming / Drain hose assy / Ware house	Under construction	
Sanand (Gujarat)		Ware house		
Bangalore (Karnataka)		Ware house		
Hosur (Tamil Nadu)		Ware house		

Divisions & Products

Insulation Products

- Inner/ Outer dashboards
- Hood
- Underlay carpet
- Headliner PP/ GF
- Head shield
- Engine under cover



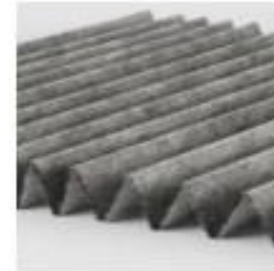
Polymer

- EPP/ EPS
- PP + Wood powder
- Extrusions
- SCUFF plates
- Luggage load floor



Seating

- 2D backing cloth
- 3D backing forming cloth



Filtration

- Engine Air Filter
- Cabin Air Filter [activated carbon]
- N95 Masks
- Lint Free Melt-blown Wipes

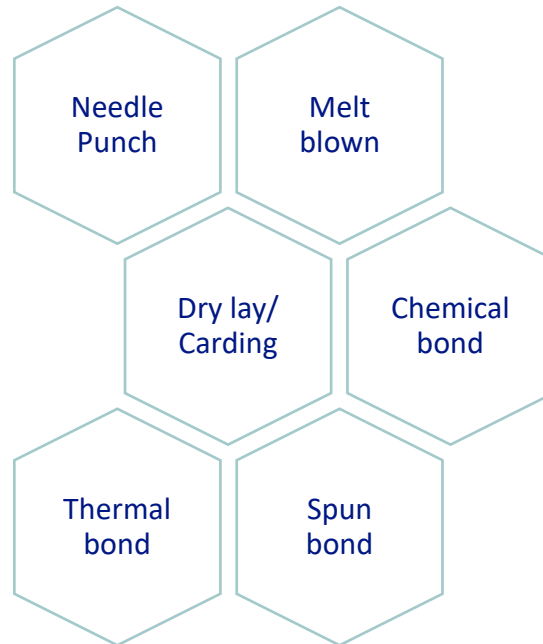


Manufacturing Section

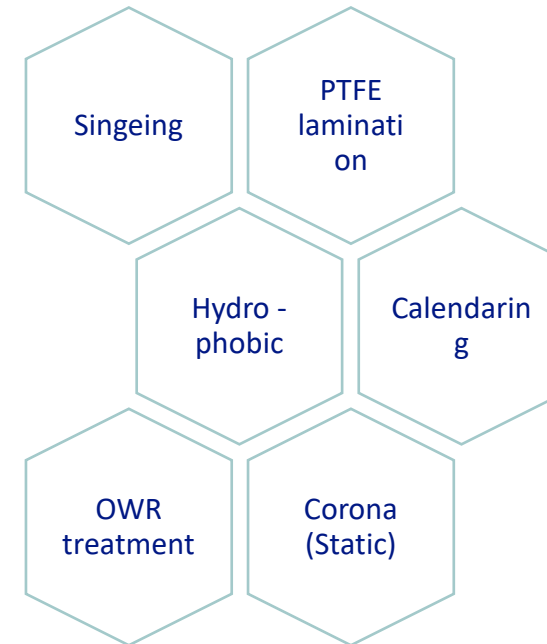


NON - WOVEN DIVISION

Technologies



Treatments



Facility - Inner & Exterior -Hot & Cold Forming



•Forming Press- 315 Tonnage 4 No's



•3 Stage infrared Oven -1 No

•Hot Air Oven-1 No

Inner Dash & Outer Dash Product

• Inner & Outer Dash Insulation products

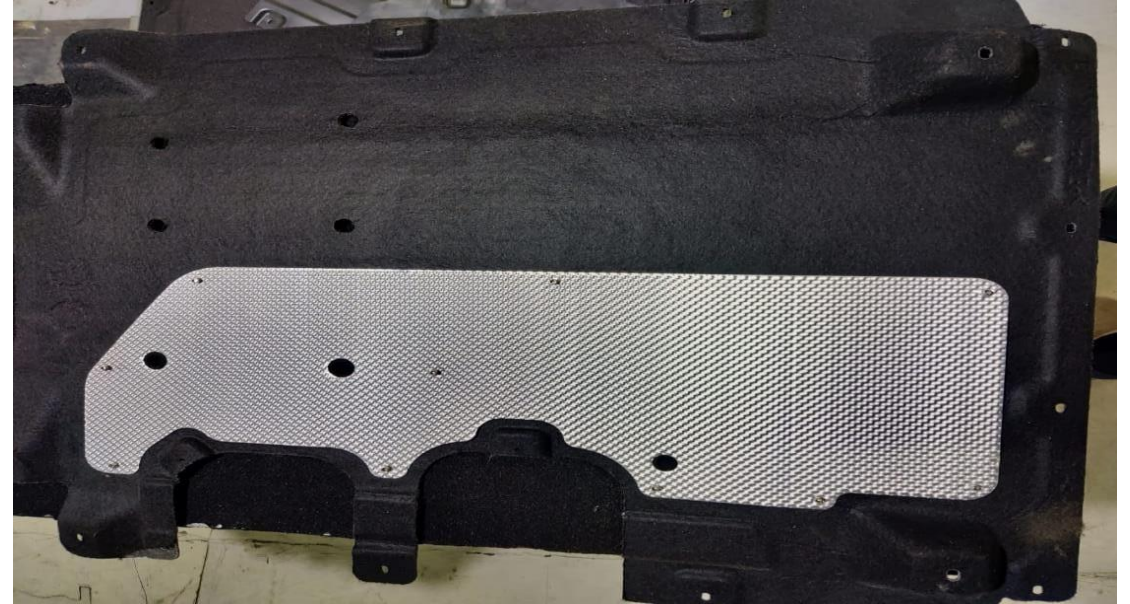


Felt Line Setup (750 Kgs / Hr)

- We have the facility to produce the inner dash & outer dash products
- We have our own felt manufacturing line (750 Kgs/Hr) available at Chennai plant



Hood Insulation



- We have the facility to produce the Hood Insulation
- We have our Resin felt production set up at Chennai



APPLICATIONS

The New light weight composite product of Glass Fiber & PP find uses in:

- Car Headlines
- Engine Heat Shield
- Car Underbody Heat Shield
- Interior Components for Automotive
- Building Roofs and Floors
- Interior for Building
- In Sandwich Structure



PROPERTIES

- Light Weight, high strength and install easily.
- After molding- good dimensional stability.
- Excellent insulating material.
- During forming, non-toxic volatile and is an environment friendly product.
- Non-benzene, aldehyde and phenol volatile with no remains.
- High porosity, excellent thermal conductivity and sound absorption.
- Excellent moisture resistant and thermal ageing.
- Processing easily, low labor and high capacity.

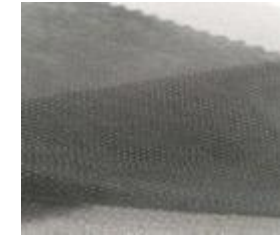


Felts – Manufacturing Set up & Capabilities

Carpet line and Felts:



Thermobonded fabric with double dot coating



Chemical bonded fabric

Chemical and Thermobonded Felts examples:



NVH Series / Airlaid Semicured Resinfelt / Thermo Weldable Engine



Complete Vertical Integration with capabilities of all kinds of Resinated felts, Chemically and Thermobonded Felts – Major source for Hyundai NVH Material requirement

Felts – Automating Process

INPUT: FELT ROLL



ONLINE CUTTING INTO REQUIRED SHAPE



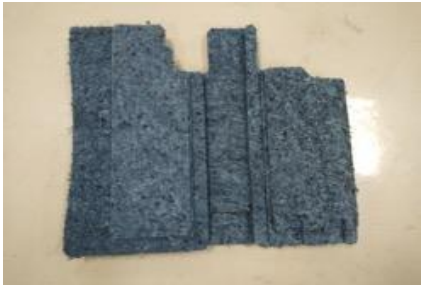
GLUE PASTING



FINAL PART



AUTOMATION FOR PRODUCTIVITY

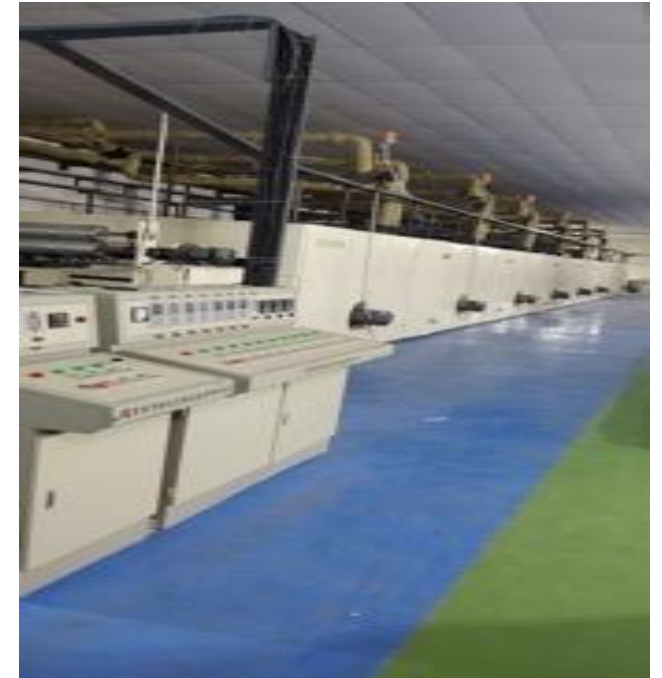


Carpet – Manufacturing Set up

CARPET: PRODUCTION SET UP



STENTER LINE COATING: PE, LATEX, LDPE, ETC...



Thermal Insulation products

Heat Shields: Al sheet + Glass Fiber / EVA



Battery Insulations



Exterior tunnel insulation shields



Material Types:	
Thickness (Range)	2 – 25 mm
Surface Weight (Range)	750 – 1350 g/m ²
Tensile Strength (ASTM D5034)	Mach. Dir – 162 N/cm ² Cross Dir – 196 N/cm ²
Flammability (SAE J369)	Self Extinguishing
Temperature Resistance	Continuous – 175° C Intermittent – 204° C
Material Construction Options:	
<ul style="list-style-type: none">• Polyester fiber core material in white or grey• Variety of surface cover options including Al Foil, Black Nonwoven, Microperforated Al, or unfaced• Tuned acoustic constructions available for improved absorption performance in specific frequencies	

- Insulation Felt for Washing Machine



PP+PET (Park lite – Meltblown)



PRODUCT NON-AUTOMOTIVE APPLICATIONS

QUALITY ASSURANCE

- 100% Inspection for GSM and Thickness
- Every Batch is checked for Sound Absorption Co-efficient in our Testing lab Impedance Tube.
- For Alpha Cabin Measurements we have association with ARAI.

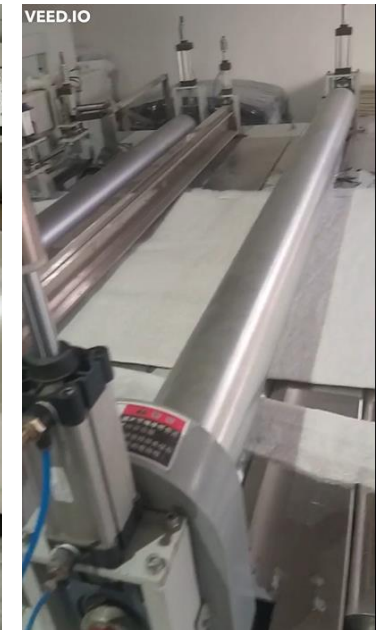
SPECIFICATIONS

- GSM Range 120 to 600 grams.
- Available with Single and Double Scrim options.
- Finished Width can be Max 1600 mm.
- Thickness can be adjusted as per custom requirements.



■ Process Capabilities

- Fully automated Plant with Capacity of 2500 MT/annum.
- Precise Fibre mixing and distribution mechanism to get uniform quality.
- Automated Feeding system with GSM controller to ensure consistent Carding feed.
- Capability of making Thermal bonded and mechanical bonded Needle Mat.
- PLC controlled system with automatic Roll winding and Sheet cutting system.
- Produced in Controlled Temperature and Humidity.
- Poka-Yoke for any kind of metal and spark protection.



■ Product Details

- Fiberglass Needle Mat-E (650°C)
- ECR Fiber Needle Mat (750°C)
- Basalt Fiber Needle Mat (750°C)
- S glass Fiber Needle Mat (850°C)
- Silica Fiber Needle Mat (1000°C)



■ Product Specifications

FEATURES

- Low thermal conductivity, excellent thermal insulation.
- High temperature duration, low heat shrinkage and heat loss.
- High porosity, excellent sound absorption.
- 100% inorganic fiber, non-combustibility.
- Good tensile strength and resistance for wind velocity.

SPECIFICATION

- Thickness: 3mm~25mm
 - Width : Max. 3.3m
 - Length: Max. 150M
 - Density: 100~220 kg/m³
- (√ Specified specifications on request)

SERIES OF PRODUCTS

1. Wrapped and forming pipes for exhaust muffler
2. Die cutting and heat shaped parts
3. Assembling unit combined with other materials
4. Aluminum foil laminated plus self-adhesive



POLYMER DIVISION

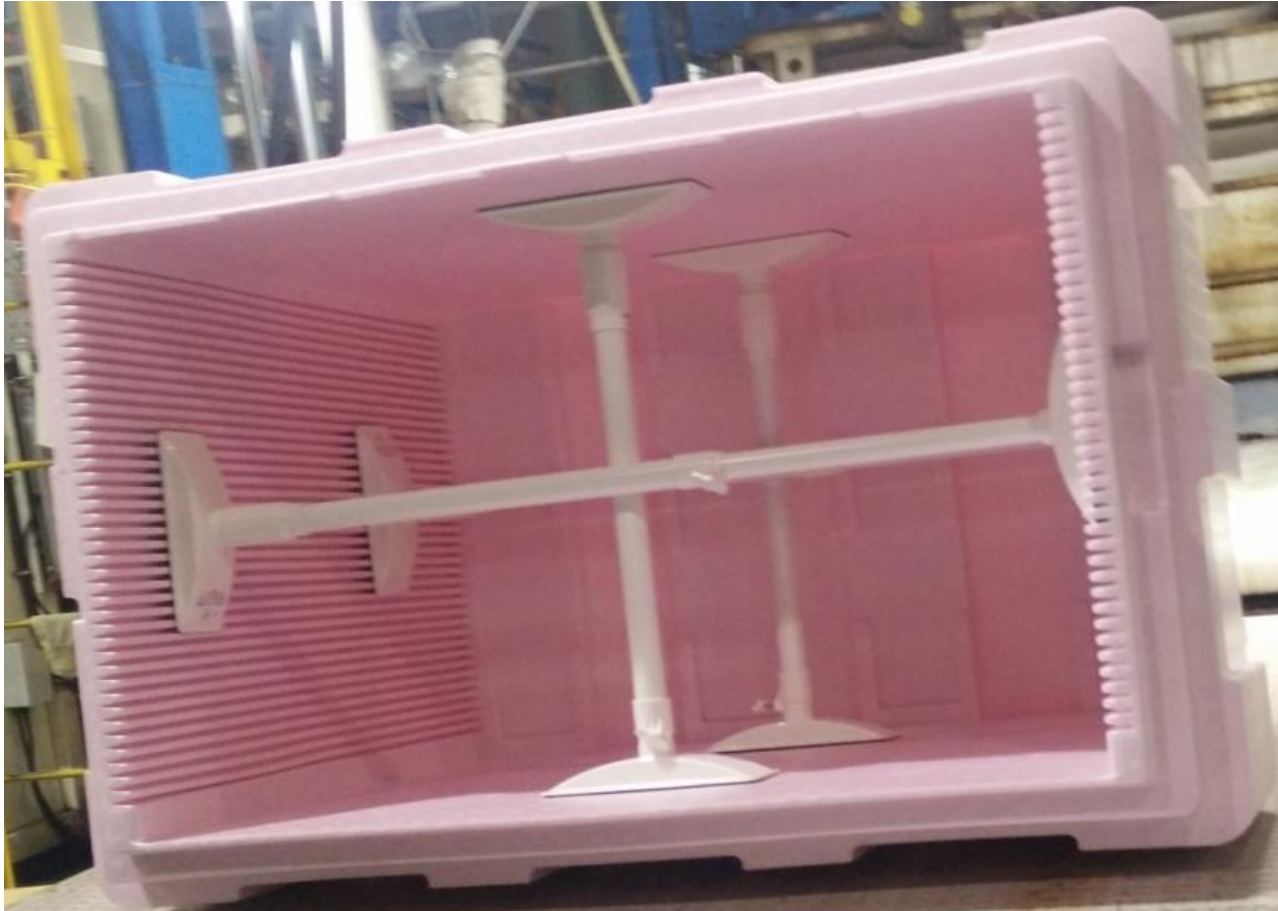


PARK is completely vertically integrated for EPP manufacturing:

- **Multiple Steam molding machines**
- **Multiple Molding locations: Chennai, Panipat, Gujrat**
- **Organized FG and RM areas**
- **Extensive Experience in EPP Molding**
- **Technical and design support from Hanwa / JSP / Kaneka**
- **Some of the parts that we do for other customers**
- **Supporting EPP parts for Hyundai and Ford**
- **PU Seat Cushion replacement by EPP for weight reduction – Supplying for Suzuki & Working with HMIL through HTL for the implementation**

EPP / EPS – White Goods Applications

- LED Glass Packing
- Refrigerator Packaging

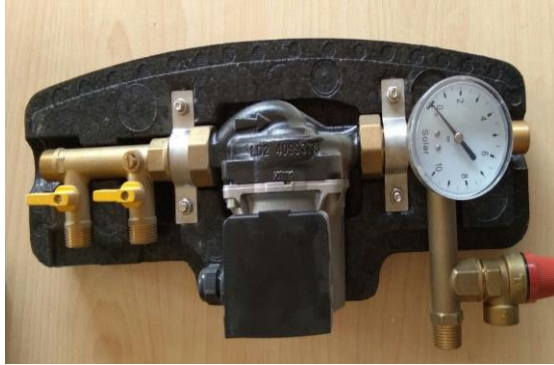


■ EPP for LED Video walls



EPP / EPS – White Goods Applications

■ EPP Solar Valve Insulation Boxes



■ EPP Defence Equipment's Packaging



■ EPP Food Delivery Boxes (Thermal Insulation)



■ EPP Cushions for NOKIA Components (4G/5G)



PP+ Wood Powder – Extrusion line



• Wood stock Covering Shelf



• PP board Trunk Trims



• Wood stock Package Tray



Parcel Tray & Trunk Lid



•Parcel Tray



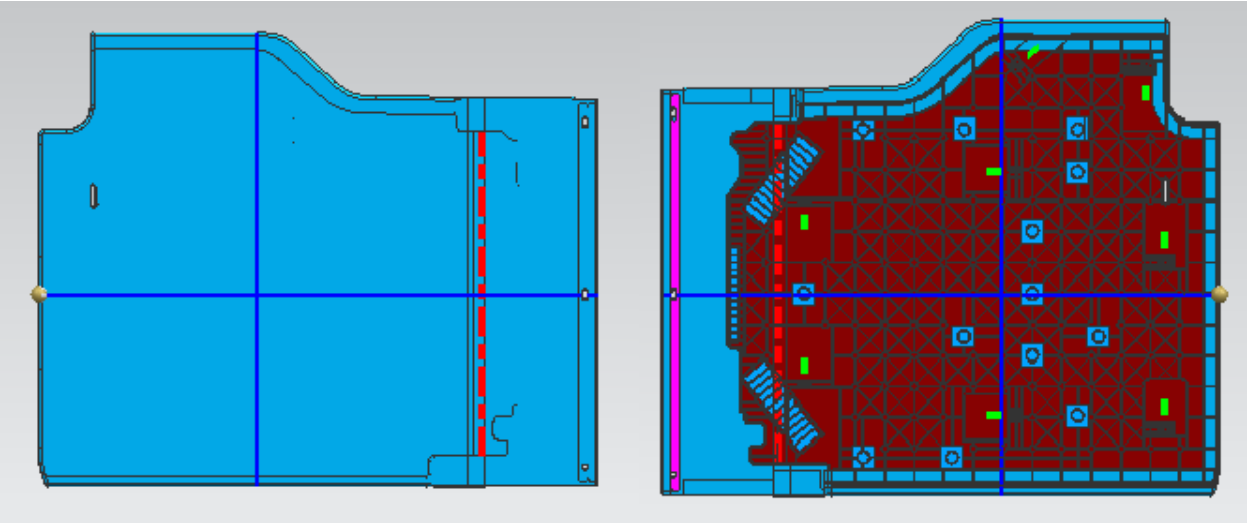
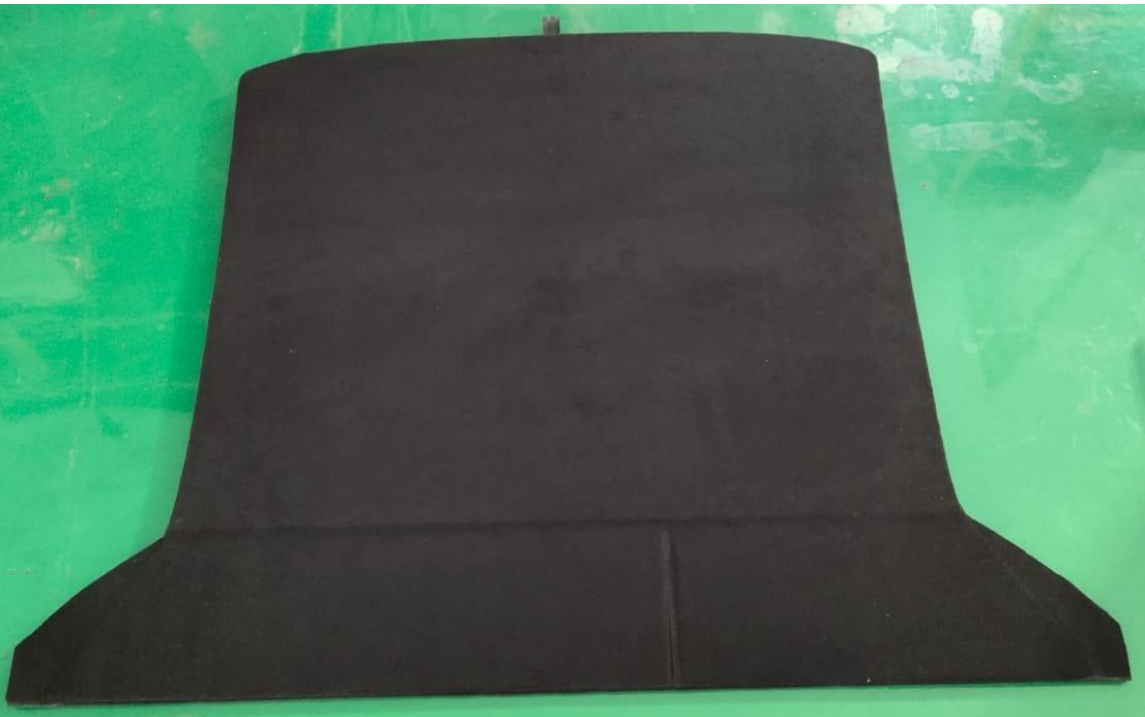
•Trunk Lid



•Luggage Side

- We have the facility to produce the Parcel Tray, Trunk Lid & Luggage side
- We have the raw material production setup as well as forming Setup available at Chennai

Luggage Load Floor- PP Honeycomb & PP injection moulded with Fabric



PP Honeycomb based Rear Luggage Load Floor

Extrusion products

Extrusion Products



Applications



4 – Extrusion lines, processing various RM's such as TPO, TPE, PVC, Co extrusion (nonwoven, steel inserts etc.)
PARK is producing Extrusion products and we are currently supporting Suzuki Roof Rails (Brezza) & Seat Trim Retainers

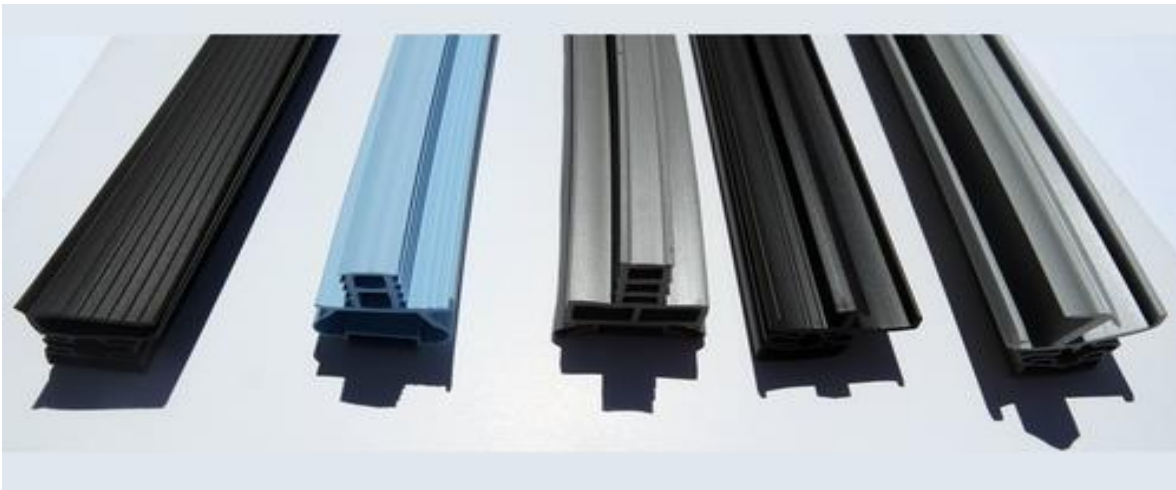
Product Details

1. OEM: HMI & KIA
2. Product: Drain Hose Assembly



Extrusion – White Goods Applications

■ Extrusion Seals for Refrigeration



■ Extrusion Drain Hose for Washing Machine



Testing Facility



GSM Tester, Thickness Measurement, Compression Elastic Ration, Tensile Tester, Sound Absorption Testing, Heat Resistance, Heat Loss and Heat Shrinkage, Flexibility, Cold Impact Test, Humidity Resistance, Flammability.

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P.A.R.K FILTER MEDIA INTRODUCTION

Engine Air Intake Filter Media

PRODUCT DETAILS

- Air Filters clean the air before it is passed through the cylinder to prevent dust, dirt, grit and other debris from causing any damage.
- A filter material for internal combustion engine air intake which consists of an air inlet layer of non woven fabric having a relatively low amount of fibers used per unit area and an air outlet layer of non woven fabric having a relatively high amount of fibres used per unit area.
- Most fuel injected vehicles uses a pleated paper filter element. Filtration efficiency of the filter material is enhanced by mixing a small amount of finer fibers into the non woven fabrics. Benefits of a clean car engine air- better performance and efficiency of engine, extended engine life.

PROPERTY	SPECIFICATIONS
Weight	200 to 350 GSM
Thickness	2.5 to 3.5 mm
Full Efficiency	>99.5%
Dust Type	ISO-12103, A2 Fine
Dust Holding Capacity	>900 g/m2



PRODUCT DETAILS

- Auto cabin air filters capture pollen, mold spores, dust, soot, smog, smoke and other tiny airborne pollutants. The filters also trap bigger debris such as sand, bugs, leaves.
- Cabin air filter is a flat panel consisting of a pleated filtration media and supporting frame. In some filters the material is electrostatically charged to increase its efficiency.
- Cabin air filters can trap pollutants without affecting the flow of air. Cabin Air Filters are efficient devices that can trap particles down to the micron level.

PROPERTY	SPECIFICATIONS
Weight	75 to 165 GSM
Thickness	0.3 to 1.5 mm
Full Efficiency	>99.9%
Dust Type	2% Nacl Aerosol
Dust Holding Capacity	>20 g/m2



PRODUCT DETAILS

- Cellulose Media is Widely used into Automotive Filtration especially Heavy Duty, Engine Oil Circuit, Since it has very good mechanical and chemical resistance to wide range of engine oil..
- PARK has capability of merging two technology by multi layer i.e. Coating with PBT Melt blown.
- Coated Cellulose media helps in increasing the filtration perfomance i.e. Efficiency, Increase in DHC without much effecting the pressure drop.

PROPERTY	SPECIFICATIONS
Weight	80 to 210 GSM
Thickness	.7mm to 1.5 mm
Pore Size- Maximum Pore	35 – 140 Micron
Mean Pore	25 – 120 Micron
Dust Holding Capacity	100 g



HVAC Filter Media

HVAC (HEATING, VENTILATION AIR CONDITIONING) (G3,G4,M5,M6,F7,F8,F9) (MERV 8 TO MERV 16)

- **Pre-filter** are made from non-woven synthetic fiber media to ensure retention of solid particles up to the stipulated micron rating. They are graded according to efficiency. Media manufactured using Thermal bonding, Melt-blown and spunbonded technology.
- Media can be electrostatically charged to trap microbes, MPPS, pollen dust etc.
- Media offer High air flow, low pressure drop, High dust holding etc. Our media comply ISO 16890, EN 779 and ASHRAE 52.2 standard
- Suitable for the applications such as clean rooms, operating theatres, research facilities, micro electronic industries, pharmaceutical industries.

PROPERTY	SPECIFICATIONS
Weight	80 to 400 GSM
Thickness	1 to 20 mm
Efficiency	UPTO 95%
Particle size	> 0.4 μm
Rating	As per efficiency

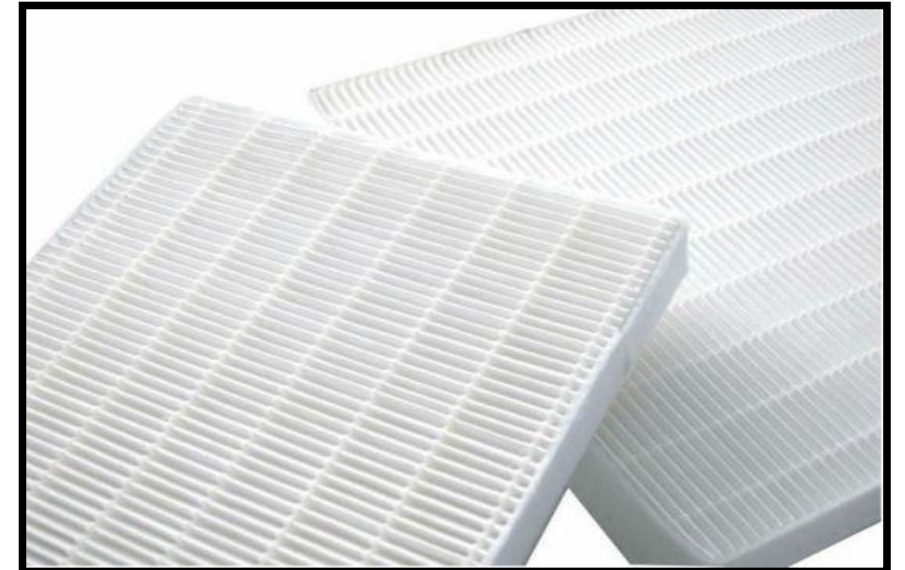


HEPA Filter Media

HEPA (HIGH EFFICIENCY PARTICULATE AIR FILTER) (H13, H14, H15) (Non Woven Synthetic Media and Micro Fiber Glass)

- High Efficiency Particulate Air Filter media is made for Dust class H, HEPA filtration medium is provided in various grades depending upon filtration efficiency requires upto 99.995% efficiency.
- HEPA filter media traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke, suitable for the applications such as clean rooms, operating theatres, research facilities, micro electronic industries, pharmaceutical industries.
- According to the different requirements of different working conditions or functional processing can be done.

PROPERTY	SPECIFICATIONS
Weight	75 to 130 GSM
Thickness	0.35 to 0.6 mm
Efficiency	>99.995%
Particle size	> 0.5 μ m
Tensile Strength (KG)	MD>81 , CD>71

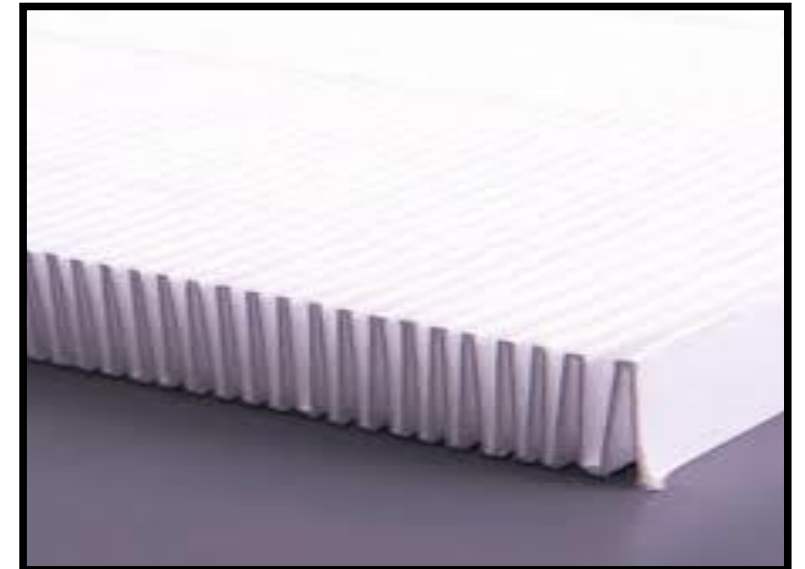


ULPA Filter Media

ULPA (ULTRA LOW PENETRATION AIR FILTER) (U15, U16, U17)

- ULPA media is made for Dust class D, ULPA filtration medium are use to control airborne particulate levels and to stop the spread of toxic agents and infectious diseases,it traps harmful particles such as dust mites, bacteria, pet dander.
- ULPA filter media are manufactured with dense, corrosion resistant PTFE membrane,suitable for the applications such as super clean rooms, operating theatres, research facilities, micro electronic industries, pharmaceutical industries.
- According to the different requirements of different working conditions or functional processing can be done.

PROPERTY	SPECIFICATIONS
Weight	75 to 135 GSM
Thickness	0.35 to 0.6 mm
Efficiency	>99.9999%
Particle size	> 0.3 μm or larger
Tensile Strength (KG)	MD>81 , CD>71



INDUSTRIAL AIR FILTER MEDIA

■ PET (POLYESTER)

■ PPS (POLYPHENYLENE SULPHIDE)

■ P84 (POLYIMIDE)

■ PTFE (TEFLON)

■ NOMEX (Aramid)

■ HPA (HOMOPOLYMER ACRYLIC)

■ GLASS FIBER

■ PP (POLYPROPYLENE)



PROPERTY	SPECIFICATIONS
Weight	450 to 800 GSM
Thickness	1.8 to 2.8 mm
Air Permeability @200pa- l/dm ² /min	96 to 156
Continous Temp.	As per Specifications
Tensile Strength	MD>100 , CD>100



ZERTIFIKAT

CERTIFICATE

證書

CERTIFICADO

CERTIFICAT



CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

P.A.R.K Industries Pvt Ltd
S- 2/5 Melma Road Pudupattu Village, Maduranthagam Taluk
Chengalpattu District - 603303
India

has established and applies
a Quality Management System for

**Manufacture of non-woven felts and carpets,
wood plastic composite Sheets and sewing
(without Product Design as per Chapter 8.3).**

An audit was performed and has furnished proof
that the requirements according to

IATF 16949
First Edition 2016-10-01

are fulfilled.

Issue date: **2021-10-04**
Expiry date: **2024-10-03**
Certificate Registration No.: **12 111 50923/01 TMS**
IATF Certificate No.: **0427788**



Head of Certification Body
Munich, 2021-10-05

Page 1 of 1

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www.tuv-sud.de/certificate-validity-check



ZERTIFIKAT

CERTIFICATE

證書

CERTIFICADO

CERTIFICAT



CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that


P.A.R.K Industries Pvt Ltd
S- 2/5 Melma Road Pudupattu Village,
Maduranthagam Taluk Chengalpattu District – 603303, India

has implemented Environmental Management System
in accordance with **ISO 14001:2015**
for the scope of

**Manufacture of non-woven felts, Wood Plastic composite Sheets,
Cutting & Pasting of Carpets and non-woven fabric Sewing for
Automotive Application.**

The certificate is valid from **2022-03-24** until **2025-03-23**
Subject to successful completion of annual periodic audits
The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by
entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of
this certificate may be obtained by consulting the certification body at info.in@tuv-sud.com

Certificate Registration No. **99 104 01362**
Date of Initial certification: **2022-03-24**
Issue Date: **2022-03-24** Rev. 00



Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



TÜV SÜD South Asia Pvt. Ltd. • TÜV SÜD House • Saki Naka • Andheri (East) • Mumbai – 400072 • Maharashtra • India



ZERTIFIKAT

CERTIFICATE

證書

CERTIFICADO

CERTIFICAT



CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that


P.A.R.K Industries Pvt Ltd
S- 2/5 Melma Road Pudupattu Village,
Maduranthagam Taluk Chengalpattu District – 603303, India

has implemented Occupational Health and Safety Management System
in accordance with **ISO 45001:2018**
for the scope of

**Manufacture of non-woven felts,
Wood Plastic composite Sheets, Cutting & Pasting of
Carpets and non-woven fabric Sewing for Automotive Application.**

The certificate is valid from **2022-03-24** until **2025-03-23**
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Certificate Registration No. **99 117 00846**
Date of Initial certification: **2022-03-24**
Issue Date: **2022-03-24** Rev. 00



Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
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