



Verbindungen schaffen – Klebebänder, Schutzfolien und EPDM-Schäume für Ihre Anwendung

Webinar Tewipack

Michel Sabo



AGENDA

- Introduction of Nitto
- Challenges & Market trends
- Nitto 's technology solutions
- Summary
- Q&A

INTRODUCTION

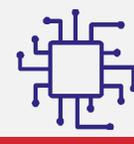
ABOUT NITTO



<p>Founded in 1918 Tokyo, JP</p>	<p>99 companies worldwide</p>	<p>1967 EMEA CHQ Genk , BE BHQ Dusseldorf, DE</p>
<p>~28K employees worldwide</p>	<p>1013 bn Yen turnover worldwide</p>	<p> Tokyo SE</p>

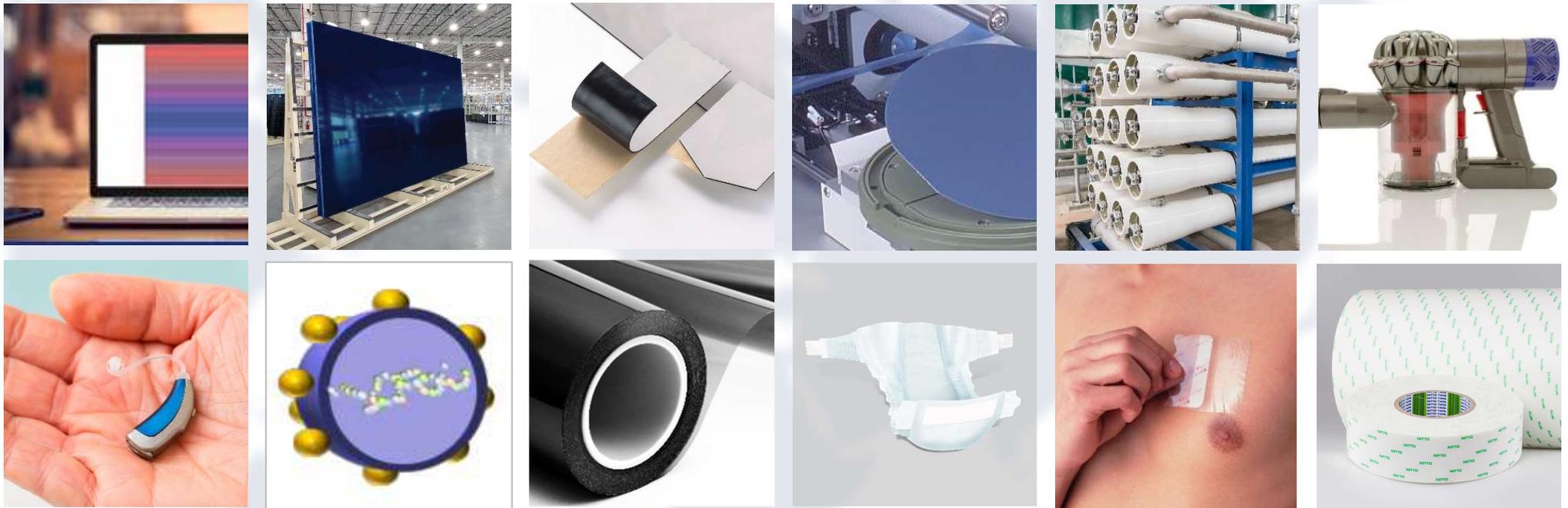
<p>> 1,000 products</p>	<p>70 B2B markets</p>
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 <p>POLYMER CHEMISTRY</p>	 <p>> 30 Technical Platforms</p>	 <p>8 CORE TECHNOLOGY</p>
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<p>EMEA FOCUS AREAS</p>	 <p>MOBILITY</p>	 <p>LIVING</p>
	 <p>SEMICONDUCTOR</p>	 <p>PERSONAL CARE</p>

INTRODUCTION

PRESENT IN MANY APPLICATIONS ALL AROUND THE WORLD



CHALLENGES



Comfort

- Enhance user experience
 - Noise insulation
 - Vibration reduction
- Smart solutions



Safety

- EU regulations
- Improved air quality for interiors
- Reduced hazardous components



Efficiency

- Assembly processes
- Optimized performance of equipments
- Energy consumption

FUNCTIONS THAT MATTERS

What are Nitto technologies doing and how to find the right product?



TO ADHERE

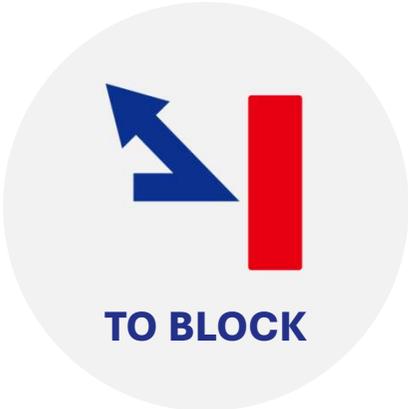


TO PROTECT



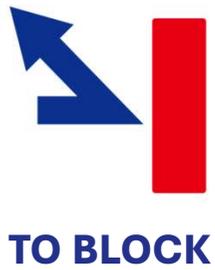
TO BLOCK

Sealing Materials



SEALING MATERIALS

EPTSEALER : SEMI-CLOSED CELL EPDM FOAM



Water



Wind



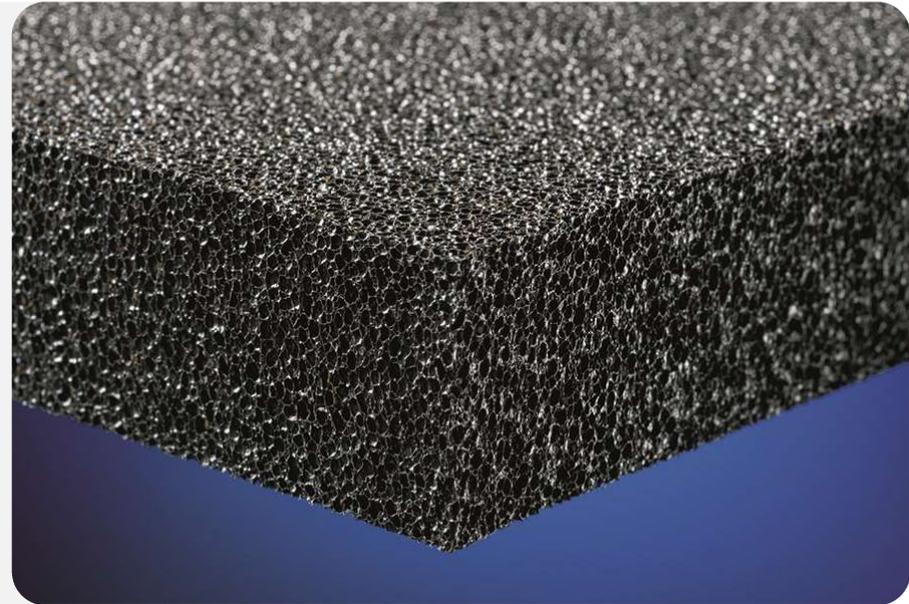
Sound



Heat



Shock



EPDM: Ethylene Propylene Diene Monomer

EPTSEALER - Ethylene Propylene Terpolymer

EPTSEALER | COMFORTABLE LIVING

Market



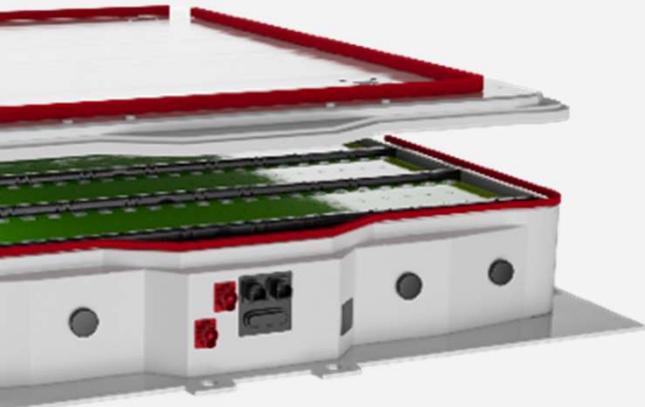
Product function

- Adapt easy to variety of gaps
- Resist environmental circumstances
- Withstand mechanical stresses

Benefits

- Excellent sealing and insulation
- High compressability
- Effective noise and vibration damping
- Easy processing: automation ready

Enabling water tightness and acoustic comfort



Highly durable and conformable sealing solution towards EV battery pack.

- Conformable, soft & flexible
- Durable against moisture, temperature, ozone, UV, fungus
- Bio- circular content via Mass Balance approach



**WATER AND
DUST TIGHT**



**HIGHLY
COMPRESSIBLE**



**AUTOMATION
READY**

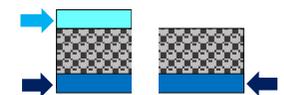
SEALING MATERIALS

AUTOMATED APPLICATION EPTSEALER

10



Fast process: no drying or curing needed!



Possible for single and double coated EPT

Super Clean Foam : Semi-closed PP Foam for Electronics



SCF foam

Soft and light weight sealing solution towards electronic equipment.

- Excellent cushioning
- Good sealing property against water/dust/sound
- Environmentally friendly : Low emission -No corrosion- low dust generation
- Ultra-thin Foam: min: 0,1 mm



**WATER AND
DUST TIGHT**

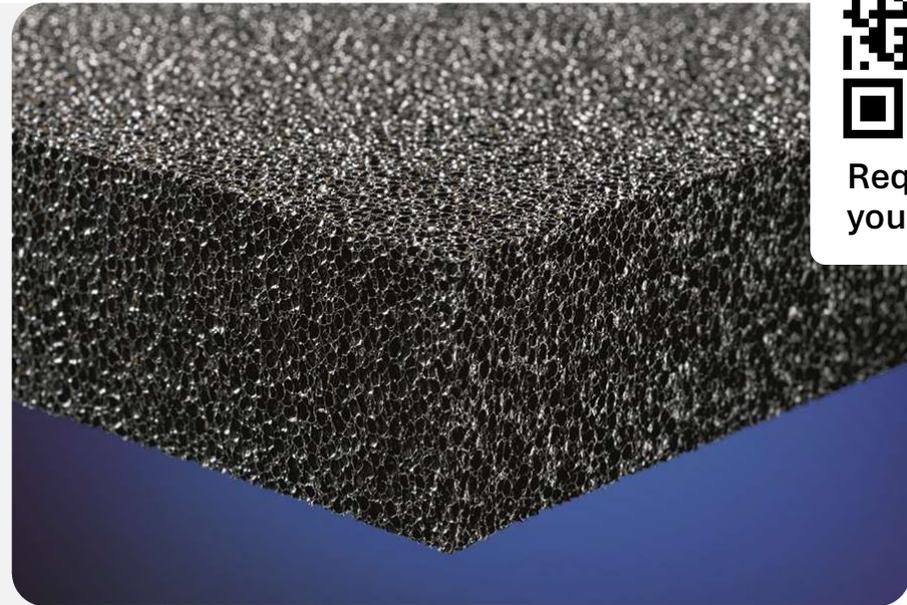


**HIGHLY
COMPRESSIBLE**

EPTSEALER | EE1010: SEMI-CLOSED CELL EPDM FOAM



-  Water
-  Wind
-  Sound
-  Heat
-  Shock



Request your sample

EPDM: Ethylene Propylene Diene Monomer

EPTSEALER - Ethylene Propylene Terpolymer

Double coated tapes



DOUBLE COATED TAPES | NITTO LSE- ADHESIVE TAPES

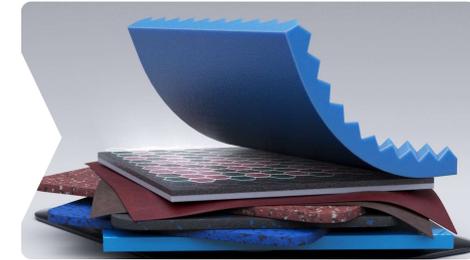


-  Bond LSE
-  Resist Dynamic forces
-  Block Sound
-  Seal Water
-  Absorb Shock

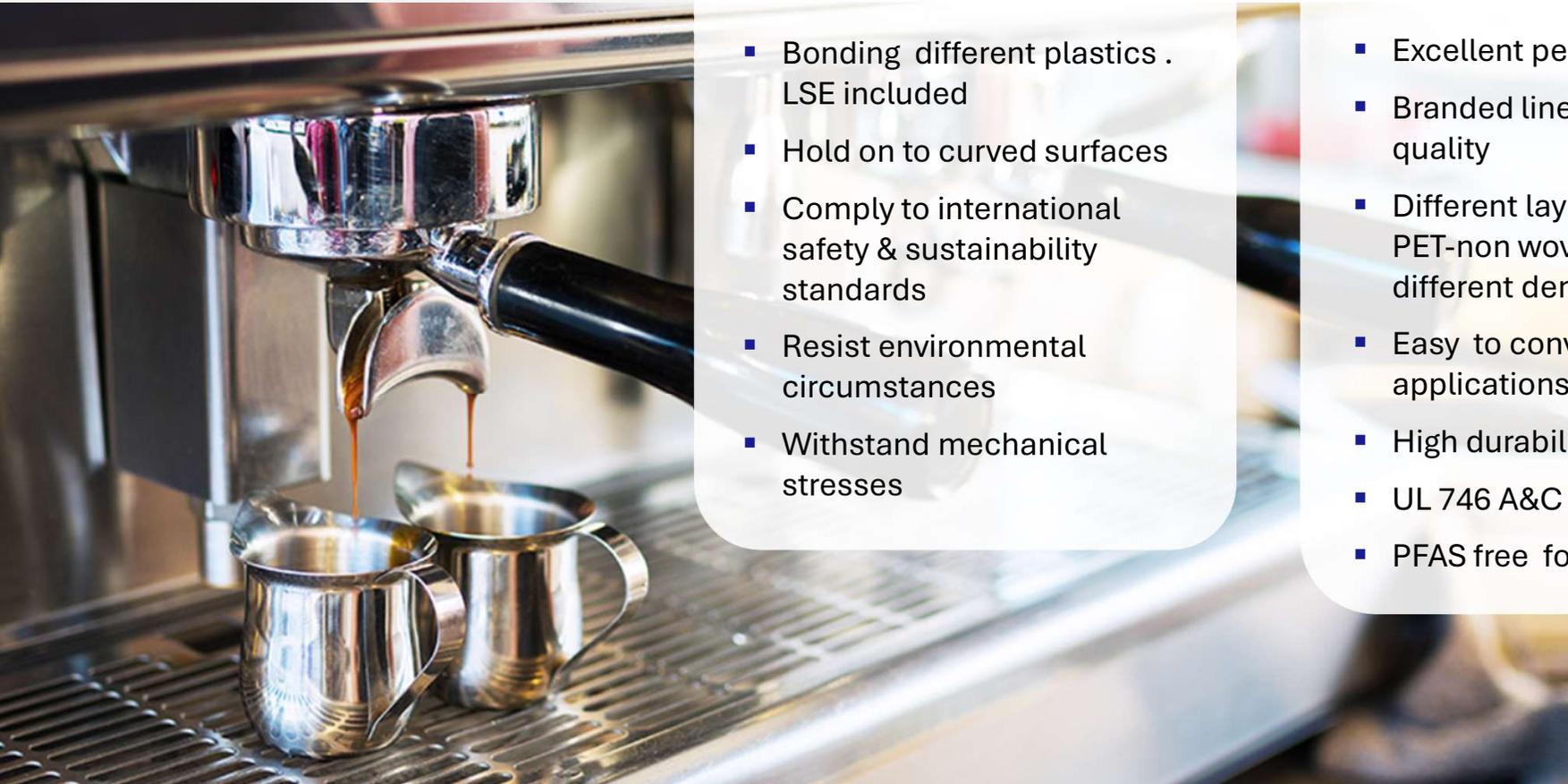


DOUBLE COATED TAPES

LSE- TAPES | COMFORTABLE LIVING



Market



Product function

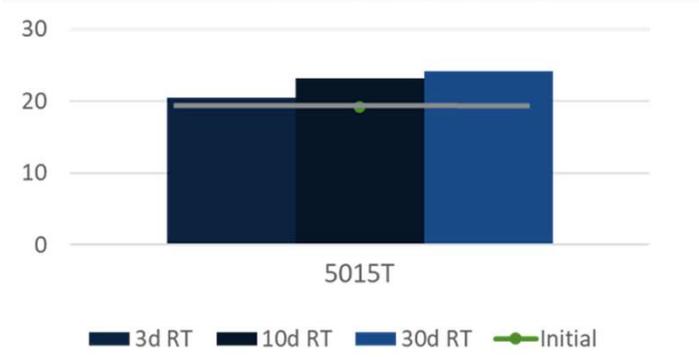
- Bonding different plastics . LSE included
- Hold on to curved surfaces
- Comply to international safety & sustainability standards
- Resist environmental circumstances
- Withstand mechanical stresses

Benefits

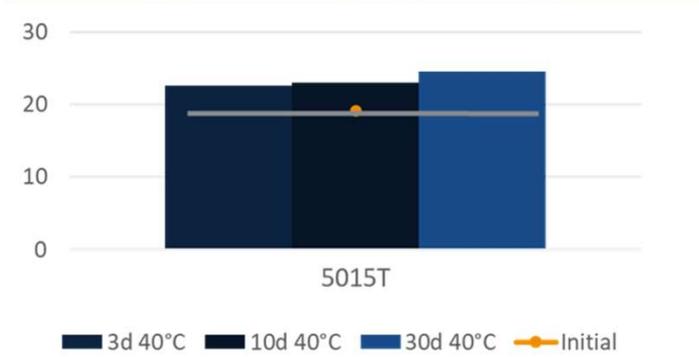
- Excellent performance on LSE
- Branded liner guaranteed high quality
- Different lay out possible. PET-non woven-transfer-foam in different densities
- Easy to convert for automatic applications
- High durability
- UL 746 A&C certified
- PFAS free foam tape

LOW SURFACE ENERGY ADHESIVE PERFORMANCE

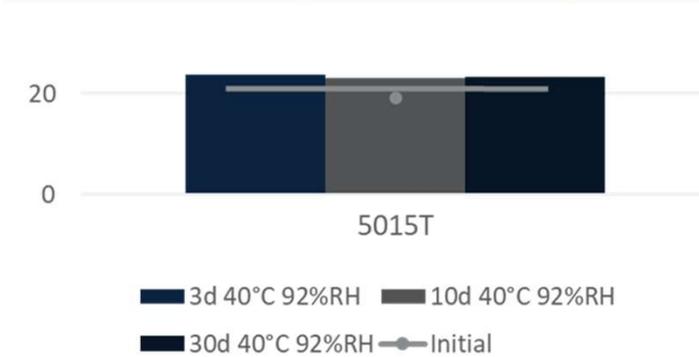
1. Room temperature



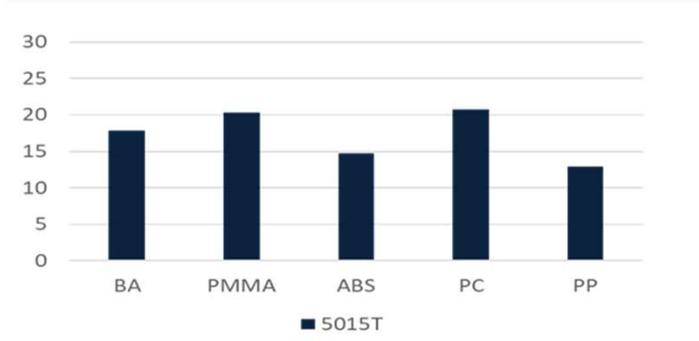
2. Elevated temperature



3. Elevated temperature and high RH



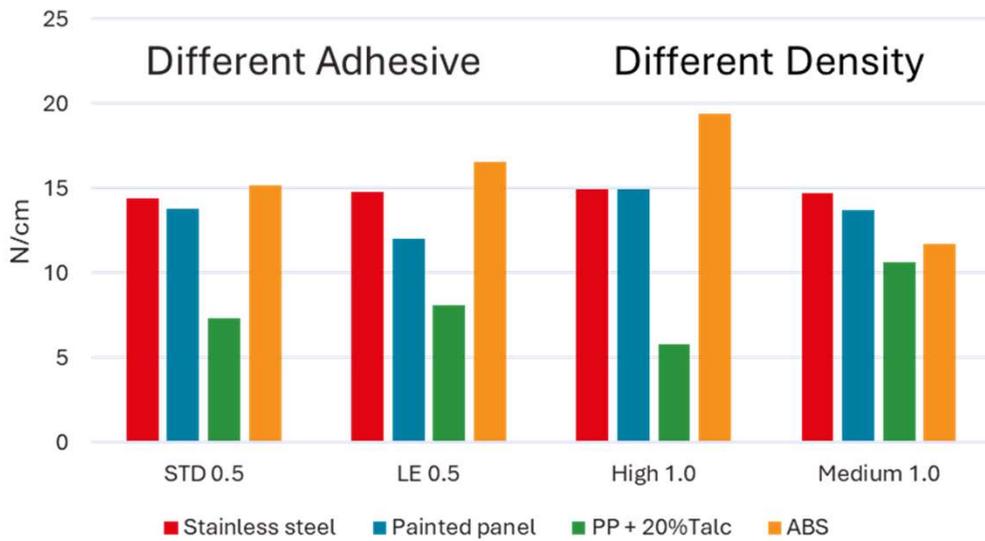
4. Different substrates



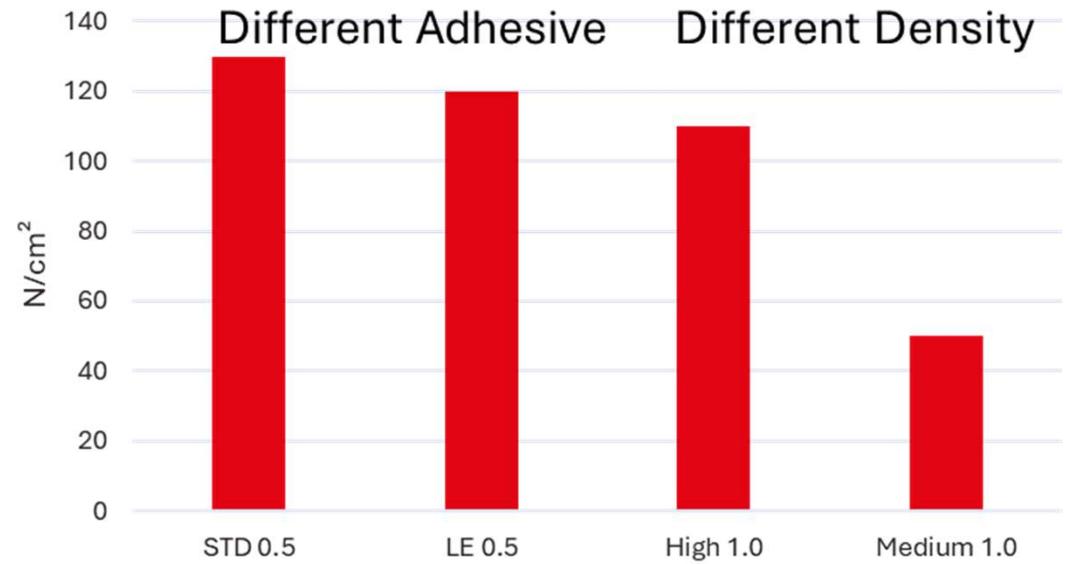
DOUBLE COATED TAPES

PO FOAMS – 57XX SERIES

24 hours RT: 90° peel - 50 mm/min

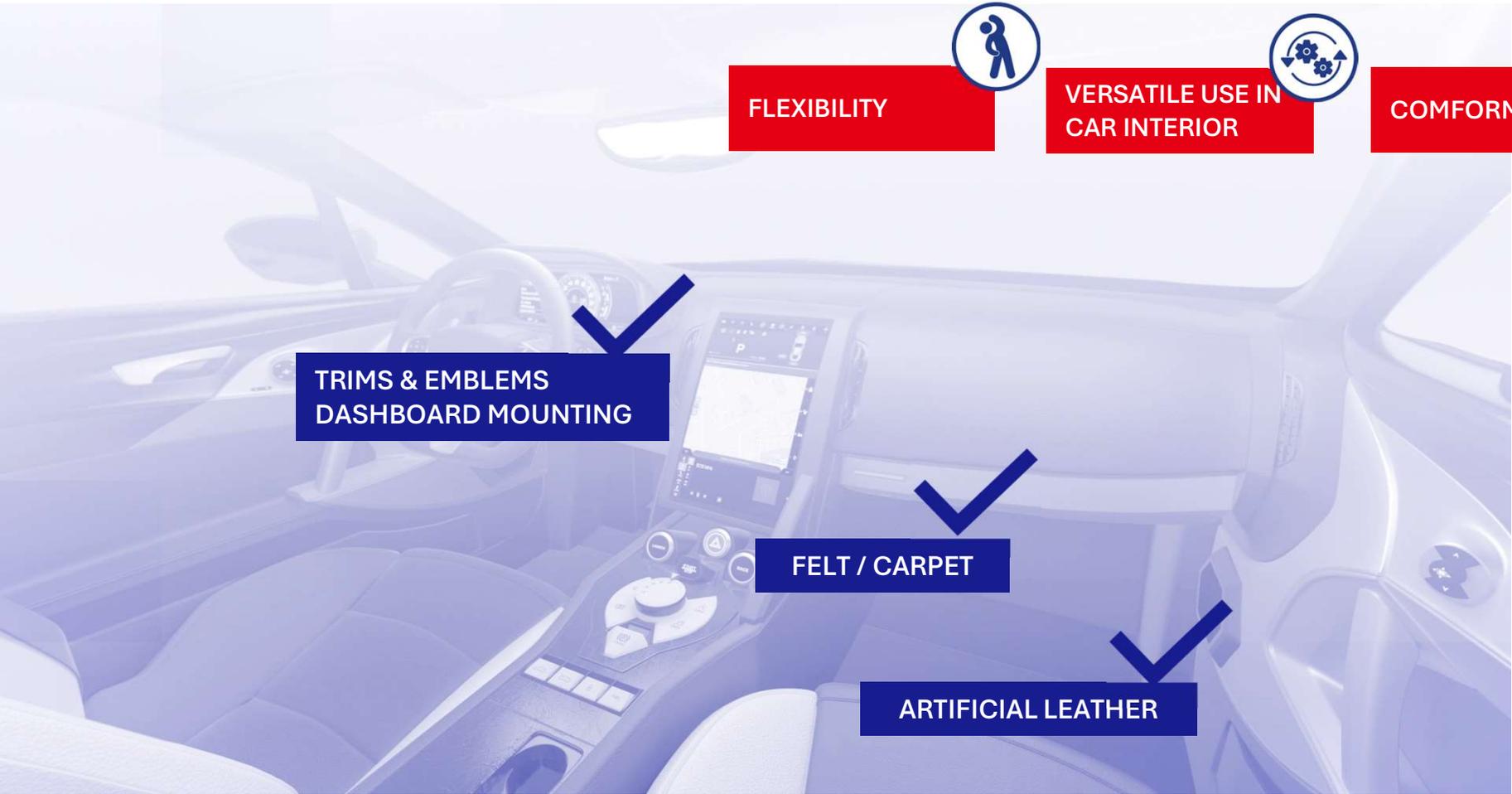


Dynamic shear 300mm/min - Stainless steel



DOUBLE COATED TAPES

MOBILITY INTERIOR APPLICATIONS OF LSE TAPES



FLEXIBILITY



VERSATILE USE IN
CAR INTERIOR



COMFORMABILITY



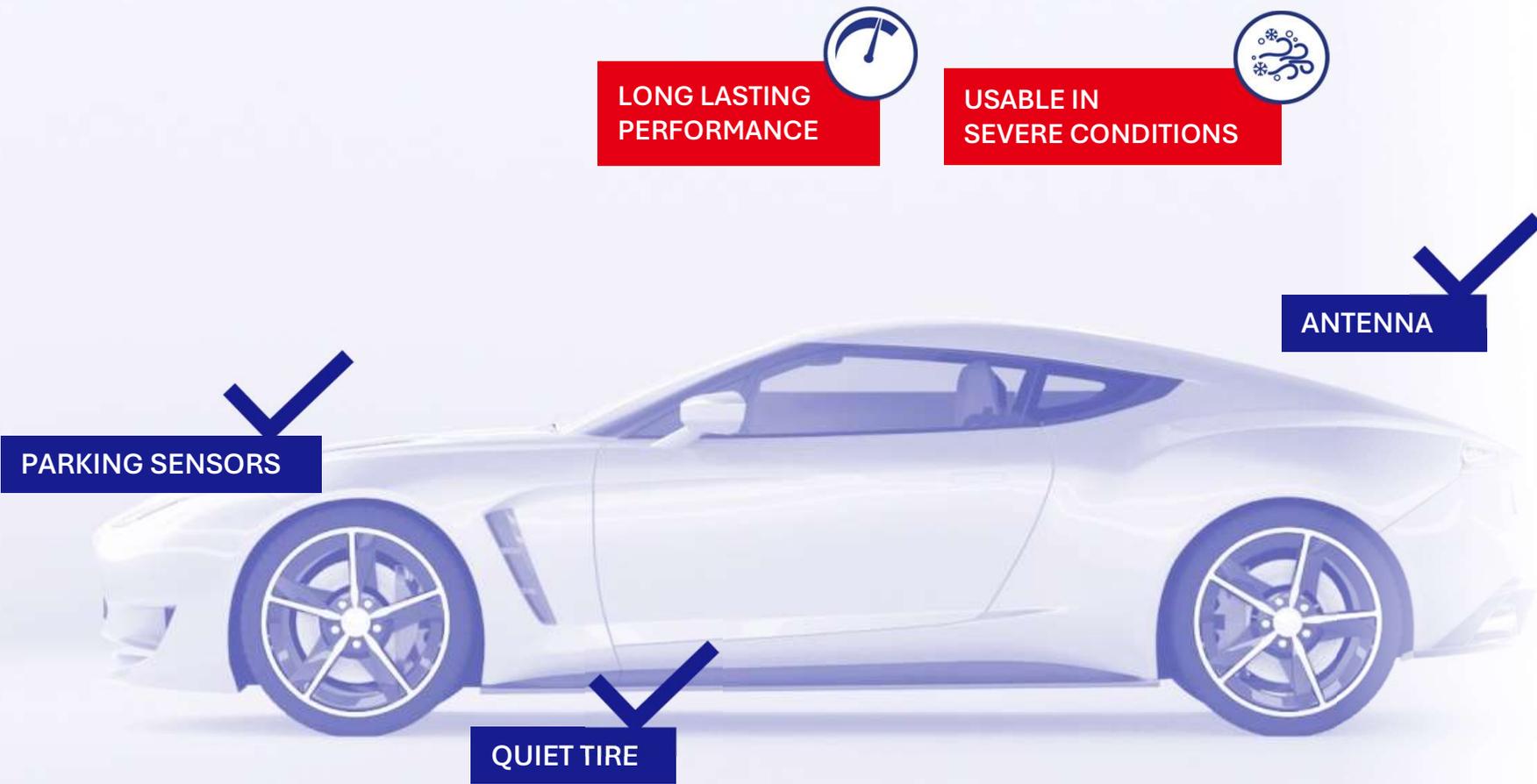
TRIMS & EMBLEMS
DASHBOARD MOUNTING

FELT / CARPET

ARTIFICIAL LEATHER

DOUBLE COATED TAPES

EXTERIOR INTERIOR APPLICATIONS OF LSE TAPES



DOUBLE COATED TAPES

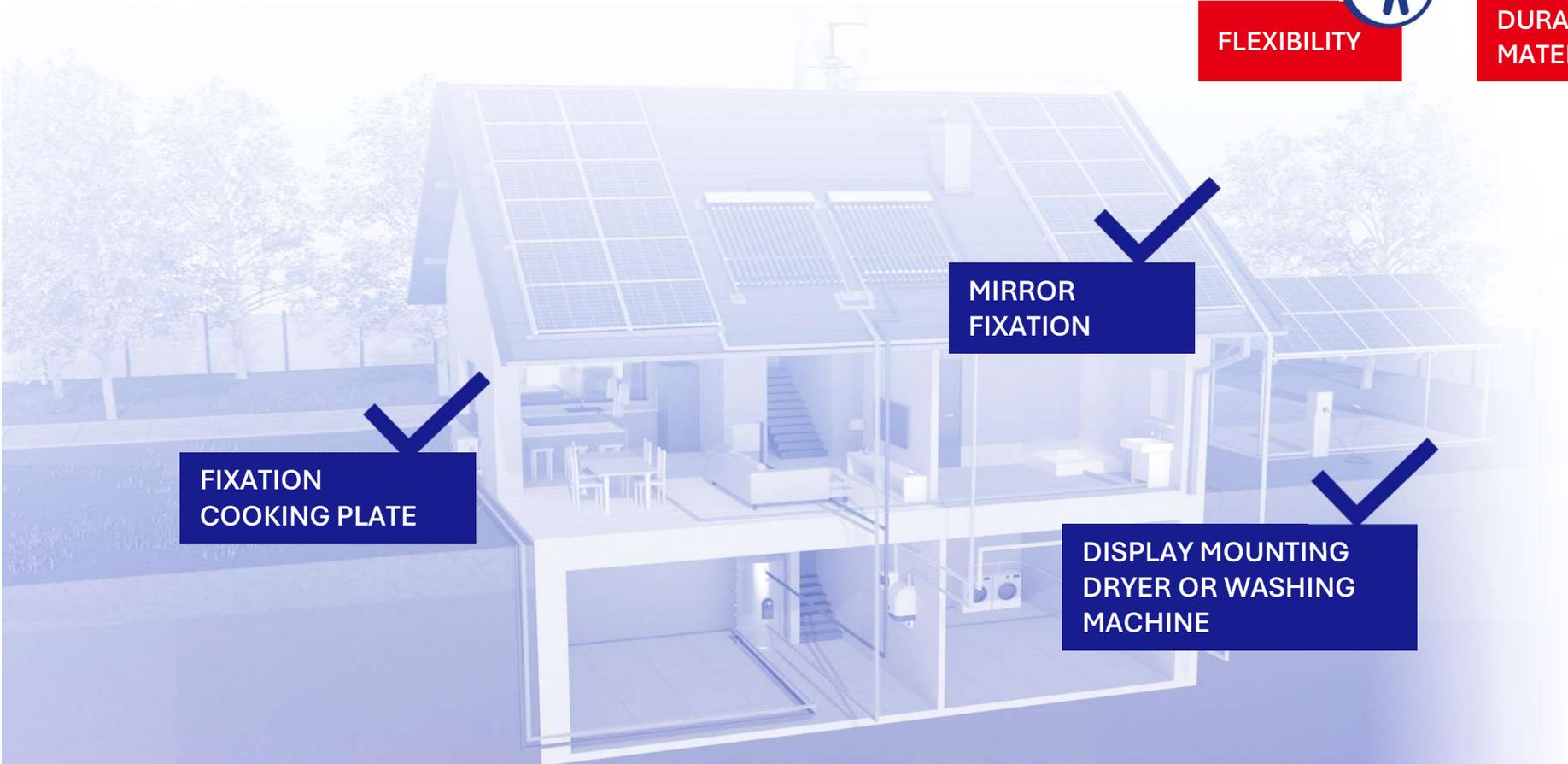
DOMESTIC APPLIANCES APPLICATIONS OF LSE TAPES



FLEXIBILITY



DURABLE MATERIALS



FIXATION
COOKING PLATE

MIRROR
FIXATION

DISPLAY MOUNTING
DRYER OR WASHING
MACHINE

DOUBLE COATED TAPES OTHER PRODUCTS

Low Emission = VOC + Fogging + Odor



Transfer

PE coated paper

- 5005TLE
- 5015TLE

Non-woven

PE coated paper

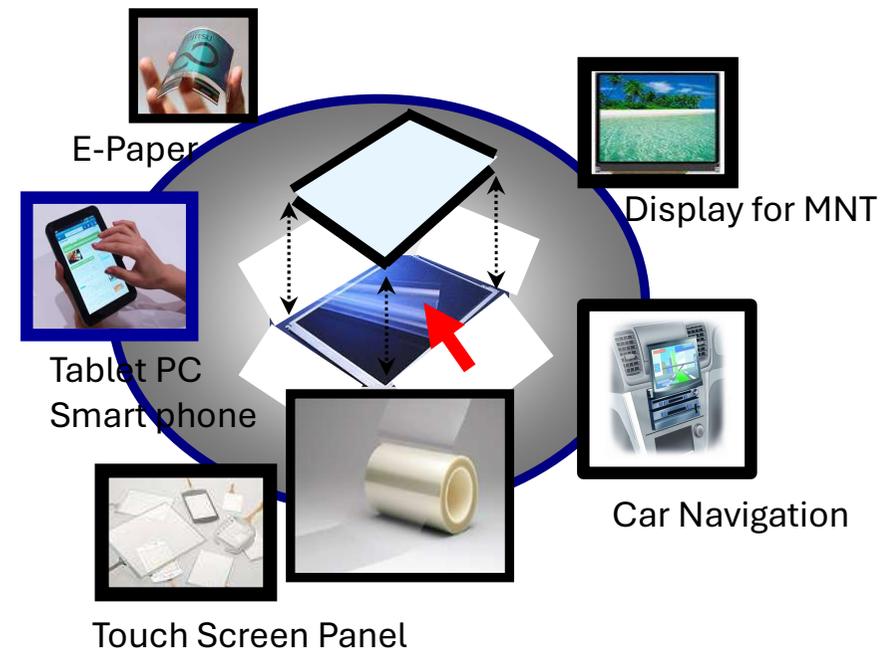
- 5015ELE
- OW-5016

Foam

PE coated paper

- 57XXLE

Optical clear adhesives



DOUBLE COATED TAPES | NITTO 57XX-SERIES FOAM TAPE



-  Seal Water
-  Bond LSE
-  Block Sound
-  Resist Dynamic forces
-  Absorb Shock



Request your sample

Surface Protection Tapes



SURFACE PROTECTION TAPES | SPV- SERIES



TO PROTECT



Adhesion



Unwind



Mechanical properties



Weather resistance



Market



Product function

- ✓ Protect sensitive surfaces
- ✓ Multiple surface roughness
- ✓ Easy removability
- ✓ Clean removability
- ✓ Withstand mechanical deformations

Benefits

- ✓ Allows high output.
- ✓ Different adhesion levels.
- ✓ High quality LDPE film.
- ✓ F-qualities for sensitive surfaces.

PROTECTION MATERIALS WHEN TO USE SPV

Functional Coatings

provide added value to conventional coatings



Deep gloss



EMC Shielding



Anti Reflection



Easy to clean



Low Emission



Corrosion Resistance



Anti Fingerprint



Mechanical Grinding

Substrates

Metal

Glass

Plastics

Wood & Others

Processes

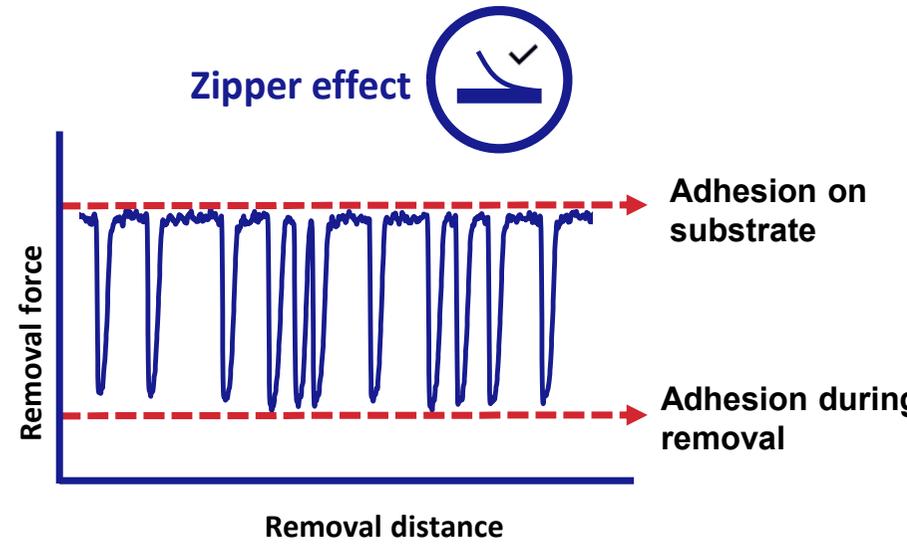
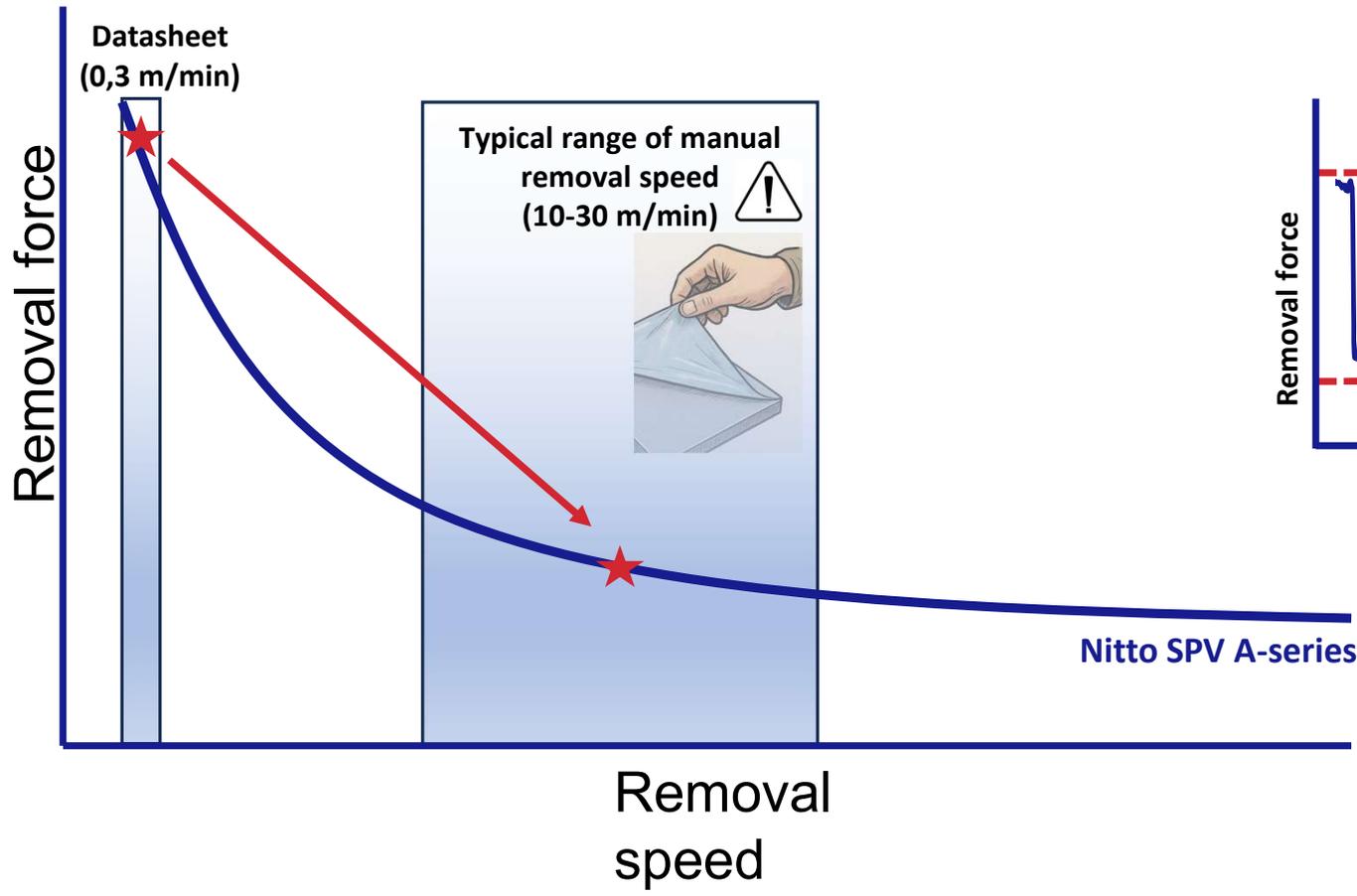
Thermoforming

Mold Injection

Mechanical Deformation

Laser Cutting

EASY-PEEL REMOVABILITY



A-SERIES

APPLICATION ON HIGH-GLOSS SURFACES | SPV 5058AF

For high-gloss or decorative surfaces where visual quality is critical.

✓ Optical clarity & aesthetics

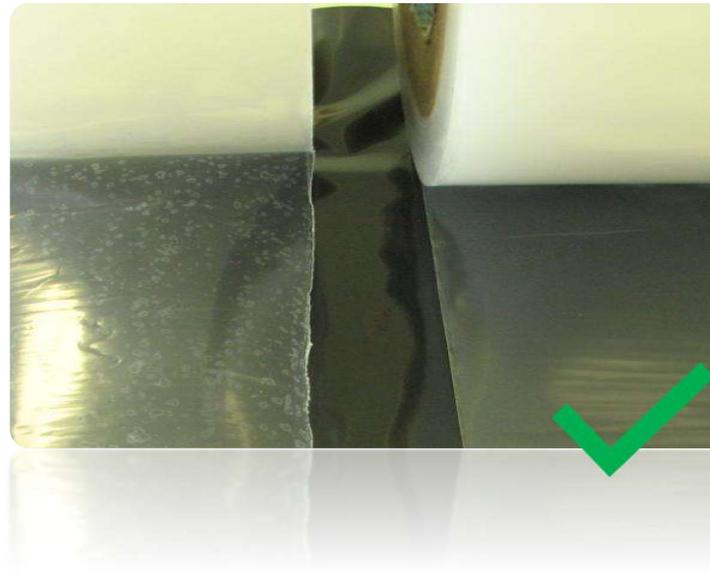
✓ Uniform surface contact

✓ Reduced risk of stains or residue



Request your sample

F-GRADE
AIR BUBBLE FREE



A-SERIES

APPLICATIONS ON METAL |SPV 5057A7

Aluminium Fuel Tanks

> 16-ton trucks



Reflector grade aluminum

e.g. ceiling light

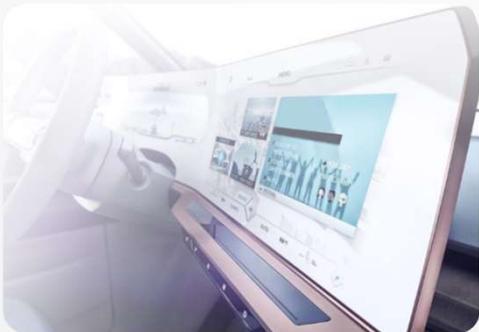


Request
your sample



Request
your sample

Displays



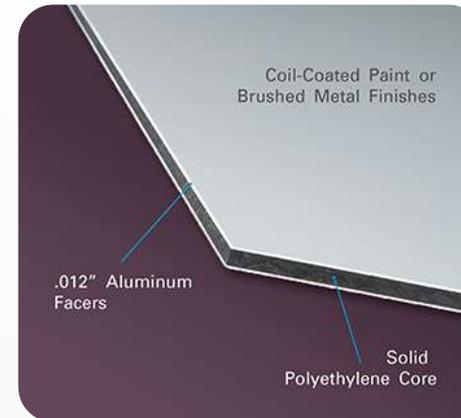
Anti-static properties
→ Emask RB-serie

No anti-static properties
→ SPV A(F) series

Composite Panels



Displays



SURFACE PROTECTION TAPES| SPV –SERIES



Adhesion



Unwind



Mechanical properties



Weather resistance



Request
your sample

CHALLENGES & MARKET TRENDS

CHALLENGES



Comfort



EE1010



Safety



57XX-SERIES



Efficiency



A(F)-GRADE SERIES

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