DOUBLE COATED TAPES

5790 SERIES

General description

The Nitto's 5790 Series PFAS-Free Foam Double Coated Tapes are pressure-sensitive foam tapes featuring a modified acrylic adhesive. Engineered for reliable mounting applications, these tapes offer excellent adhesion to a wide range of substrates, including those with low surface energy.

Features

- PFAS-Free Double Coated Tape
- High adhesion on low surface energy substrates
- Good repulsion resistance
- Good shock absorption
- Polyvalent on different substrates.
- Excellent holding power
- Absorbs irregularities of the substrate
- Available with different liners

Application

Nitto 5790 series are double coated foam tapes designed for bonding metal sheets, nameplates, emblems, glass parts and a wide range of plastics to several substrates. These products can be used for interior and exterior applications. Due to the foam carrier, it can easily follow the contour of irregular substrates.

Properties

	Typical Value*	**Test Method**
Tape thickness**	0.60mm – 0.90mm – 1.1mm	EN 1942
Adhesive type	Modified acrylic	n/a
Release liner type	Siliconized brown paper (120g/m²)	n/a
Carrier type	Anthracite PO foam (185 kg/m³)	n/a
Adhesion to BA steel	1700 cN/20mm	EN 1939/ ISO 29862
Adhesion to ABS	1800 cN/20mm	EN 1939/ ISO 29862
Adhesion to PP	1400 cN/20mm	EN 1939/ ISO 29862
Static shear	1 mm/3h	EN 1943
SAFT	115°C	+0.5°C, 20x15mm, 200g

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.
**Tape Thickness: Total thickness without liner .

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1040 mm
Lengths: 30m-50m-100m
Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- It is recommended to start processing immediately after lamination (within 1 day).
- Longer storage time of applied material should be avoided due to increase of adhesion.
- This tape is not designed for outside exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.
Full technical details in connection with this product are presented in the customer product specification, which is available upon request.
The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- IATF 16949