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Technical Data Sheet Signal Tape ALU-Standard

Signal Tape ALU-Standard is a heat-activatable adhesive tape which consists of a compound of nonwoven and aluminum with one-side glue coating. The inductive tape is used to joint veneer stripes to veneer rolls in special veneer jointing machines.

Carrier Material

The carrier consists of a compound of high-grade nonwovens and an aluminum foil. The nonwovens mainly base on long-fibrous cellulose. Synthetic fibres as well as latex binder are admixed for increasing tearing resistance and flexibility.

Glue Coating

The glue coating is applied from a water-based system. In combination with sufficient press temperature and pressure it provides a very heat- and water-resistant glue bond.

Processing

The tape is processed in special veneer jointing machines without application of additional glue. Possible tolerances in veneer thickness can cause poor sticking at the thinner veneer parts. The following processing conditions base on our own experience. Please consider that all types of wood and machinery are different. Therefore it is absolutely necessary to carry out own tests.

pressing temperature 250°C
pressing time 1.0 to 2.0 seconds
moistening of tape with water is recommended

Aluminum is very sensitive to oxidation and therefore can cause discoloring of the veneers in combination with humidity and the tannic acid of the wood. At following lamination processes it is essential to care for a suitable lamination glue as well as for sufficient drying of the glue.

Main Applications

production of fixed-size veneers on rolls for profile wrapping
activation of cutting units in the wrapping process by induction

Product Properties

optimum induction properties
high tearing resistance
high heat resistance of glue bond

Physical Properties

thickness before pressing approx. 280 µm (11.0 mil)
tensile strength longitudinal 6.420 N/m
tensile strength lateral 3.780 N/m
tearing resistance lateral 4,7 N

Storage

temperature cool storage, by short-term up to 50°C
humidity dry storage, protect against water and humidity
shelf life minimum 6 months

Form of Delivery

packing in cardboard boxes on pallets
roll length 250 l.m. (820')
standard widths 42 mm (1.65") and 20 mm (0.78"); other widths on inquiry
quantity per box 10 rolls in 42 mm width or 21 rolls in 20 mm width
inside diameter 76 mm (3")

All information in the data sheet as well as our processing recommendations, irrespective whether given orally or in writing, are based on our own practical and scientific experience. These are given without obligation and therefore not a guarantee for any properties. Due to the multitude of materials and different processing conditions it is obligatory to clarify prior to the begin of the processing by examinations, suitable in extent and method, whether the product is suitable for the intended purpose. 08/2018