

## ADESTOR: TECHNICAL PROPERTIES

| PROPERTY   | RELATED REGULATION            | INFLUENCE ON PRODUCT QUALITY   |
|--|-------------------------------|--|
| <b>*CHARACTERISTIC*</b>                                      |                               |  |
| Facestock material/substrate substance                       | ISO 536                       | Intrinsic property related to the customer's requirements. For paper in reels, substances somewhat below the nominal values are established in order to increase productivity. Some papers (coated, bulk, thermal paper) prioritize thickness over substance with the aim of meeting specific objectives concerning the final measurements of the spine or small reels.  |
| Facestock material thickness/caliper                         | ISO 534                       | Intrinsic property related to the customer's requirements. For paper in reels, substances somewhat below the nominal values are established in order to increase productivity. Some papers (coated, bulk, thermal paper) prioritize thickness over substance with the aim of meeting specific objectives concerning the final measurements of the spine or small reels.  |
| Facestock material whiteness-D65/C2                          | ISO 11475/ISO 11476           | Property related to the appearance of the product. Greater whiteness tends to be associated with higher quality. As visual perception of this property depends on the kind of illuminant used, 2 different conditions are typically used for measuring, exterior light (D65 sunlight) and interior light (C2 fluorescent).   |
| <b>*RUNNABILITY*</b>   |                               |  |
| Paper curl   | Tappi um-427                  | In the application of uncoated paper for photocopies in laser printing processes with drying toner at a high temperature, deformation/curl occurs as a result of the reaction of the sheet to heat. When there is excessive heat, operation problems can occur both in the photocopy machine itself (printing of sheets) as well as in the subsequent process of zigzag folding (printing of reels).   |
| Facestock material dimensional stability -100°               | UNE 53275                     | Measures how film facestock material shrinks or dilates with temperature. Temperature influences the behavior of this facestock material in the manufacturing process of self-adhesive labelstock (movement respecting the substrate).   |
| Substrate thickness/caliper                                  | ISO 534                       | Main factor in self-adhesive for a proper die-casting that does not damage the matrix or cause the labels to be poorly die-cast or become loose.   |
| <b>*PRINTABILITY*</b>  |                               |  |
| See all previous properties that refer to facestock material | See corresponding regulations |  |
| Facestock material surface tension (films)                   | Tappi T698                    | This property is applicable to facestock material in which the ink-paper affinity is critical, especially the film facestock material used in self-adhesive. It determines, by means of surface energy, the quality of the application of an ink, allowing for predicting which print processes and inks are adequate.   |
| <b>*APPLICATION*</b>   |                               |  |
| Peel-Steel/PE/Tablex/Kraft                                   | FINAT FTM-1                   | Intrinsic properties of adhesive that determine its hardness, tack, and adhesion strength. The test, carried out on steel (standard test) or any other surface (one considered representative of a concrete application) permits measuring its behavior regarding adhesion speed, strength and durability. A test is also carried out under different conditions of application/preservation (humidity/temperature). This is referred to as a test of "manual adhesion on different substrates." |
| Quick Stick  | FINAT FTM-9                   |  |
| Cohesion   | FINAT FTM-8                   |  |

\*RELATED REGULATION\*: Those use as a reference for developing test method

\*TEST METHOD\*: Documented analytic procedure for measuring or quantifying the property.

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