

Technical Data Sheet
Black Laser Label (4mil) – 612
Matte Black Laser Label (4mil) – 613

General Description: Nortec 612/613 has a brittle, scratch and chemical resistant, highly cross-linked PUAcrylic double layer backing. The adhesive system consists of a resin modified acrylic suitable even for low energy surfaces. This high performance product is used as a tamper evident identification label over the entire lifetime of a product and also as a data carrier system for intelligent in-process steering.

Uses & Features: High marking resolution and contrast for clear info appearance
 Highly durable and resistant against chemicals, solvent, temperature and all weather conditions
 Tamper evident
 Cutting and marking in one process
 Enables highest flexibility in label design – no need for dies.

Properties: The print resists smearing, abrasion, smearing, chemicals and harsh environments.

Thickness:

	Average Results USA Units	SI Units
Total (without liner)	0.0039 inch	0.1 mm

Adhesion: >1.8N/cm

Note: All values shown are averages and should not be used for specification purposes. Test data and test results contained in this document are for general information only and shall not be relied upon by Nortec customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Nortec for further information.

Temperature performance:

Performance properties	Test Method	Typical results
Short Term High Service Temperature	15 minutes at (270 °C)	No visible effect to label
Longer Term High Service Temperature	48 hours at 536°F (220 °C)	No visible effect to label

No functional or visible effect to the label at -50 °C to 120 °C

Shelf life: One year.

Warranty: Nortec AMI recommends that a selected label type be thoroughly tested to insure it meets all end user requirements. Nortec AMI warrants only the purchaser that its products are free from defects in material and workmanship. Nortec AMI limits its obligation under this warranty and at its option to repair or replace the product. This warranty is in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. Nortec AMI is not liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising out of the use of or inability to use such product. Nortec Ami used in part information from materials manufactures and did not conduct all the test itself.

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