



**025NT0072020GL**

**Item #: S8884960**

3.2 MIL NTC DIRECT THERM/720 ALL TEMP ADHESIVE/2 MIL YELLOW GLASSINE  
Approximate weight per MMSI: 217 lbs. Standard core size is 3 inches. Total caliper: 5.9 mils +/- 10%

**FACESTOCK**

A 46# (70 g/m<sup>2</sup>) medium sensitivity non-top coated direct thermal paper designed for short duration labels or applications where the label is not exposed to solvents, water, oils, fats or other similar materials.

| Test Property               | Units         | Typical Value | Metric Units    | Metric Value | Test Method |
|-----------------------------|---------------|---------------|-----------------|--------------|-------------|
| Basis Weight                | lbs/25X38-500 | 50.7          | grams/sq meter  | 75.0         | TAPPI T410  |
| Caliper - Average           | mil           | 3.2           | um (micrometer) | 81.3         | TAPPI T411  |
| Smoothness (PPS) Print Side | um            | 1.65          | um              | 1.7          | TAPPI T555  |
| Tear-MD                     | grams         | 48            | mN              | 470.7        | TAPPI T414  |
| Tear-CD                     | grams         | 53            | mN              | 519.8        | TAPPI T414  |
| Stiffness-MD                | Gurley (mg)   | 100           | mN              | 1.0          | TAPPI T543  |
| Brightness                  | %             | 88            | %               | 88.0         | TAPPI T452  |
| Initial Activation Temp     | F             | 185           | C               | 85           | ISO 1924    |
| Effective Activation Temp   | F             | 280           | C               | 138          | ISO 1924    |
| Optimum Activation Temp     | F             | 300           | C               | 149          | ISO 1924    |

**Notes**

<http://gbp.com/coated-direct-thermal-ink-recommendations>

**ADHESIVE**

A non-tackified cold-temperature acrylic adhesive. Adheres to a wide variety of packaging materials. Can be used in a wide range of temperatures. Consider for general purpose labeling.

| Test Property                  | Units      | Typical Value | Metric Units   | Metric Value | Test Method |
|--------------------------------|------------|---------------|----------------|--------------|-------------|
| Caliper - Calculated           | mils       | 0.6           | um(micrometer) | 16.3         |             |
| Shear (1 x 1/2 x 1 kg)         | hours      | .2            | hours          | .2           | CPD-55      |
| Peel - 180 D SS 20 min         | lb/inch    | 1.5           | grams/25 mm    | 669.7        | CPD-52      |
| Peel - 180 D HDPE 20 min       | lb/inch    | 1.0           | grams/25 mm    | 446.5        | CPD-52      |
| Peel - 180 D LDPE 20 min       | lb/inch    | 1.1           | grams/25 mm    | 491.1        | CPD-52      |
| Peel - 180 D Glass 20 min      | lb/inch    | 1.7           | grams/25 mm    | 759.0        | CPD-52      |
| Peel - 180 D Corrugated 20 min | lb/inch    | .6            | grams/25 mm    | 267.9        | CPD-52      |
| Min. Applic. Temp.             | F          | -20           | C              | -29          |             |
| Loop Tack Stain Steel          | oz/sq inch | 44            | kg/645 sq mm   | 1.2          | CPD-16      |
| Loop Tack HDPE                 | oz/sq inch | 35            | kg/645 sq mm   | 1.0          | CPD-16      |
| Loop Tack LDPE                 | oz/sq inch | 29            | kg/645 sq mm   | .8           | CPD-16      |
| Loop Tack Corrugated           | oz/sq inch | 14            | kg/645 sq mm   | .4           | CPD-16      |
| Service Temp.                  | F          | -65 TO 180    | C              | -54 TO 82    |             |
| FDA Compliance                 | 21 CFR     | 175.105       |                |              |             |

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**LINER**

| Test Property     | Units         | Typical Value | Metric Units    | Metric Value | Test Method |
|-------------------|---------------|---------------|-----------------|--------------|-------------|
| Basis Weight      | lbs/25X38-500 | 60.0          | grams/sq meter  | 88.8         | TAPPI T410  |
| Caliper - Average | mil           | 2.1           | um (micrometer) | 53.3         | TAPPI T411  |
| Moisture          | %             | 6.5           | %               | 6.5          | TAPPI T412  |
| Tear-MD           | grams         | 30.6          | mN              | 300          | TAPPI T414  |
| Tear-CD           | grams         | 32.6          | mN              | 320          | TAPPI T414  |
| Tensile-MD        | lb/inch       | 41.1          | kN/m            | 7.2          | TAPPI T494  |
| Tensile-CD        | lb/inch       | 16.0          | kN/m            | 2.8          | TAPPI T494  |

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