

NP605

TECHNICAL DATA BULLETIN

GRADE: NP605

NEMA LI 1-1998 Grade: --

U.L. LISTED: N

DESCRIPTION: A paper-base laminate with low phenolic resin content for hard, flat surfaces. This material is normally used in the printed circuit board industry as a backup for the drilling operation. However, it is also used in other industries for tooling stock because of its ease of machining and good dimensional stability.

TYPICAL PROPERTIES

| | | UNITS | VALUE | | |
|--|---------------------------------|--------------------|--------------------------------------|-------------------------------------|--------------------------------|
| | | | Thickness Tested | | |
| | | | 0.0625" | 0.125" | 0.500" |
| PHYSICAL PROPERTIES | | | | | |
| Specific Gravity (ASTM D792) | | - | | | 1.30 |
| Rockwell Hardness (ASTM D785) | 0.250" Build-up | M Scale | 90 | | |
| Moisture Absorption (ASTM D570) | Condition D ₁ -24/23 | % | 8.00 | | |
| Flexural Strength (ASTM D790) | Condition A LW / CW | psi (MPa) | 25,000 / 25,000 (172.4) / (172.4) | | |
| Tensile Strength (ASTM D638) | Condition A LW / CW | psi (MPa) | | 17,000 / 13,000 (117.2) / (89.6) | |
| Izod Impact Strength (ASTM D256) | Condition A LW / CW | ft-lb/in (J/cm) | | | |
| | Condition E-48/50 LW / CW | ft-lb/in (J/cm) | | | 0.55 / 0.50 (0.29) / (0.27) |
| Compressive Strength (ASTM D695) | Condition A Flatwise | psi (MPa) | | | 35,000 (241.3) |

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TYPICAL PROPERTIES (continued)

| | UNITS | VALUE | | |
|---|-------------------------|------------------|--------|--------|
| | | Thickness Tested | | |
| | | 0.0625" | 0.125" | 0.500" |
| THERMAL PROPERTIES | | | | |
| Temperature Index ¹ (UL Bulletin 746b) | Electrical / Mechanical | °C | / 150 | |
| Flammability Rating (UL Bulletin 94) | Condition A | Class | HB | |

¹ This temperature is a recommendation only, and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

To assure the material's performance is adequate for a specific application; customers should verify, independent of Norplex-Micarta, performance characteristics of interest.

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if the information is the most current available.

Specification writers: Contact Norplex-Micarta for specification values before submission.