

**DUETS – ROTARY ENGRAVING STOCK –TECHNICAL DATA****F7-HDSD-B11****Rev. 3/23/15**

| PROPERTIES                          | TEST METHOD                       | UNITS       | VALUES                |
|-------------------------------------|-----------------------------------|-------------|-----------------------|
|                                     |                                   |             |                       |
| <b><u>Mechanical Properties</u></b> |                                   |             |                       |
| Tensile Strength                    | ASTM D-638                        | Psi         | 6,000                 |
| Elongation                          | ASTM D-638                        | Percent     | 4.0                   |
| Flexural Yield Strength             | ASTM D-790                        | Psi         | 9,000                 |
| Flexural Modulus                    | ASTM D-790                        | Psi         | 3.4 x 10 <sup>5</sup> |
| Impact Strength-Izod (notched, ¼")  | ASTM D-256                        | Ft. lbs/in. | 5-10                  |
| Hardness, Rockwell                  | ASTM D-785                        |             | 105                   |
|                                     |                                   |             |                       |
| <b><u>Thermal Properties</u></b>    |                                   |             |                       |
| Vicat Softening Temperature         | ASTM D-1525 (rate A)              | °F (°C)     | 212 (100)             |
| Heat Deflection Temperature         |                                   |             |                       |
| Under Load                          | ASTM D-648 (264 ps <sub>i</sub> ) | °F (°C)     | 190 (88)              |
| Flammability                        | UL94                              |             | HB                    |
| Maximum Service Temperature, Air    |                                   | °F (°C)     | 190 (88)              |
| Flame Spread                        | E-162                             |             | <17                   |
| Thermal Expansion                   |                                   |             | 0.8                   |
| <b><u>Other Properties</u></b>      |                                   |             |                       |
| Density                             | D-792-B                           |             | 1050                  |
| Specific Gravity                    | ASTM D-792                        | g/cc        | 1.3                   |