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**MECHANICAL PROPERTIES**

| Impact Strength, Notched, Ft-lb/ln | D256       | 5-6        | 2.5-3.5     | 4-6       | 7-10      | 1.5-2.5    | 2.4       | 4-6       | 6-7       | 9-10       | 10-12     | 8-10    | 9-14    | 7-10     | 9-10     |
| Flexural Modulus, Kpsi             | D790       | 1.3-1.6    | 2.2-2.0     | 1.6-1.6   | 1.5-1.7   | 1.3-1.6   | 1.2-1.5   | 1.3-1.6   | 1.5-1.6   | 1.7-2.0    | 1.6-1.7   | 1.4-1.6 | 1.8-1.9 | 1.8-1.9  | 1.7-1.9  |
| Tensile Strength, Kpsi             | D638       | 4.5-5.5    | 6.6-7.5     | 7-8       | 8-10      | 4-5       | 4-5       | 4.5-5.5   | 6-7.5      | 6.0-8.0    | 6.5-6.0   | 6-5     | 6-6     | 5-6      | 6-3-8.0  |
| Charpy Strength, Kpsi              | D732       | 10-12      | 8-9        | 7-8       | 7-9       | 4-5       | 4-5       | 6-7       | 8-9        | 9-11       | 10-12   | 8-9    | 8-9      | 7-8      |

**ELECTRICAL PROPERTIES**

| Arc Resistance, Seconds           | D495       | 180+       | 180+       | 140+      | 185+      | 240+      | 185+      | 185+      | 185+       | 185+       | 185+    | 185+   | 185+     | 185+     |
| Inclined-Plane Tracking, Mil      | D2303      | 200+       | 200+       | 500+      | 1000+     | 1000+     | 1000+     | 1000+     | 1000+      | 1000+      | 1000+   | 1000+  | 1000+    | 1000+    |
| Dielectric Strength, D/V PM       | D149       | Cordisolv  | 320        | 320       | 350       | 400+      | 350+      | 320+      | 350+       | 350+       | 350+    | 350+   | 350+     | 350+     |

**PHYSICAL PROPERTIES**

| Specific Gravity                  | D702       | 1.0-2.1    | 1.0-2.0    | 1.8-2.0   | 1.7-1.9   | 1.8-1.5   | 2.0-2.1   | 1.8-1.9   | 1.8-1.8     | 1.7-1.8     | 1.7-1.7  | 1.6-1.8 | 1.7-1.8  | 1.7-1.8 |
| Mold Shrinkage, 0.001in            | D555       | 0-1        | 0.5-3      | 0.5-3     | 0.5-3     | 0.5-3     | 0.5-3     | 0.5-3     | 0.5-3       | 0.5-3       | 0.5-3    | 0.5-3  | 0.5-3    | 0.5-3    |
| Heat Distortion, Temp @ 264 psi   | D645       | >500       | >500       | >500      | >500      | >500      | >500      | >500      | >500        | >500        | >500    | >500   | >500     | >500     |
| Water Absorption % in 24 hrs      | D570       | 0.17       | 0.17       | 0.17      | 0.17      | 0.14      | 0.13      | 0.12      | 0.12        | 0.12        | 0.12    | 0.12   | 0.12     | 0.12     |
| Bulk Factor                       | D1959      | 1          | 1          | 1         | 1         | 1         | 1         | 2         | 3           | 3           | 1-1.5   | 1-1.5  | 1-1.5    | 1-1.5    |

**COLOR CHANGE UNDER HEAT**

- White: 100°F for 300 hrs, ΔE: 1.2-1.7
- Black: 300°F for 300 hrs, ΔE: 1.2-1.7

*Values shown are based on standard tests on specified configurations and are offered as a guide. No guarantee is implied. Characteristics are subject to variations as applied to a specific design. Except for any written warranties which may be given by Mar-Bal, Inc., no express or implied warranties are made, and ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. Buyers’ exclusive remedies are limited solely to repair or replacement of nonconforming goods, and CONSEQUENTIAL DAMAGES ARE EXCLUDED.*

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The One-Source Solutions Provider

**DESIGN | FORMULATE | COMPOUND | MOLD | FINISH**

Thermoset Composites