



OmniLon™
PA6 U GR25 BK1000

25% Glass Reinforced, Utility Grade, Nylon 6

| PHYSICAL | Units | ASTM/ISO Procedure | English | Metric |
|--|-------------------|--------------------|---------------|--------|
| Specific Gravity | | D792 | 1.29 | 1.29 |
| Filler/Reinforcement | % | D5630 | 25 | 25 |
| IMPACT | | | | |
| Izod Impact Resistance Notched 1/8" bar, 73°F | ft.-lbs/in. (J/m) | D256 | 1.3 | 69 |
| MECHANICAL | | | | |
| Tensile Strength At Yield, 73°F | psi (MPa) | D638 | 19,000 | 131 |
| Tensile Elongation | % | D638 | 3 | 3 |
| Flexural Modulus | psi (MPa) | D790 | 1,200,000 | 8,280 |
| Flexural Strength | psi (MPa) | D790 | 31,000 | 214 |
| THERMAL | | | | |
| Deflection Temperature 1/8" bar, 66 psi | °F (°C) | D648 | 415 | 213 |
| 1/8" bar, 264 psi | °F (°C) | D648 | 400 | 204 |
| FLAMMABILITY | | | | |
| Flame Resistance *Omni Internal Testing | .125" | UL94 | HB* | HB* |
| RECOMMENDED PROCESSING CONDITIONS | | | | |
| Drying Temperature | | | 180° F | |
| Drying Time | | | 2 to 4 Hours | |
| Maximum Moisture | | | 0.20% | |
| Rear Zone(s) | | | 480 to 520° F | |
| Middle Zone(s) | | | 500 to 560° F | |
| Front Zone(s) | | | 500 to 560° F | |
| Nozzle | | | 500 to 560° F | |
| Mold Temperature | | | 80 to 180° F | |
| Melt Temperature | | | 500 to 560° F | |
| Back Pressure | | | 50 psi | |

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.