



OmniLon™
PA6

Injection Molding Grade, Nylon 6

| PHYSICAL | Units | ASTM/ISO Procedure | English | Metric |
|--|-------------------|--------------------|---------------|--------|
| Specific Gravity | | D792 | 1.13 | 1.13 |
| Filler/Reinforcement | % | D5630 | - | - |
| IMPACT | | | | |
| Izod Impact Resistance Notched 1/8" bar, 73°F | ft.-lbs/in. (J/m) | D256 | 1.0 | 53 |
| MECHANICAL | | | | |
| Tensile Strength At Yield, 73°F | psi (MPa) | D638 | 11,500 | 79 |
| Tensile Elongation | % | D638 | 5 | 5 |
| Flexural Modulus | psi (MPa) | D790 | 420,000 | 2,896 |
| Flexural Strength | psi (MPa) | D790 | 15,500 | 107 |
| THERMAL | | | | |
| Deflection Temperature 1/8" bar, 66 psi | °F (°C) | D648 | 350 | 177 |
| 1/8" bar, 264 psi | °F (°C) | D648 | 150 | 66 |
| 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) | | | 450 to 520° F | |
| Middle Zone(s) | | | 460 to 520° F | |
| Front Zone(s) | | | 460 to 520° F | |
| Nozzle | | | 480 to 540° F | |
| Mold Temperature | | | 80 to 180° F | |
| Melt Temperature | | | 450 to 520° 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.