RONCELLI PLASTICS
FAST | CLEAN | PRECISE

Typical Properties of

# Torlon® 5030

## Polyamide-imide with 30% Glass Fiber Reinforcement

**Process: Extruded**

| Property | Test Method | Unit | Value |
|---|---|---|---|
| **Specific Gravity** | D792 | -- | 1.6 |
| **Tensile Strength** | D638 | psi | 23,100 |
| **Tensile Modulus** | D638 | psi | 1,560,000 |
| **Elongation** | D638 | % | 4 |
| **Flexural Strength** | D790 | psi | 35,900 |
| **Flexural Modulus** | D790 | psi | 1,550,000 |
| **Compressive Strength** | D695 | psi | 38,300 |
| **Compressive Modulus** | D695 | psi | 1,150,000 |
| **Hardness, Rockwell** | D785 | -- | E94 |
| **Hardness Durometer** | -- | -- | N / A |
| **Izod Impact (notched)** | D256 | ft. lb of notch | 1.5 |
| **Coeff. of Friction (Dynamic)** | -- | dry v.s steel | 0.2 |
| **Coeff. of Linear Therm. Expan.** | E831/ D696 | in./in./°F | $0.9 \times 10^{-5}$ |
| **Continuous Use Temperature** | -- | °F | 500 |
| **Heat Deflection Temperature** | D648 | °F | 539 |
| **Glass Transition Temperature** | D3418 | °F | 527 |
| **Melting Point** | D3418 | °F | N / A |
| **Thermal Conductivity** | E1530-11 | BTU in/hr ft² °F | 2.5 |
| **Dielectric Strength** | D149 | Volts/mil | 840 |
| **Surface Resistivity** | EOS/ESD 511.11 | ohm/square | $>10^{17}$ |
| **Flammability** | UL94 | -- | V-0 |
| **Water Absorption, 24 hrs.** | D570 | % by weight | 0.33 |
| **Water Absorption, Saturation** | D570 | % by weight | 1.5 |
| **Limiting PV (4:1 Safety Factor)** | -- | -- | N / A |
| **K-Factor** | -- | -- | N / A |
| **FDA Compliance** | -- | -- | No |

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.