



Summary Of Typical Properties

- Isomide PI-220 – 20% Graphite-Lubricated Polyimide

| | Properties | Units | Value | Test Method |
|-------------------|---------------------------------|--------------------|----------------------|-------------|
| Physical | Specific Gravity | g/cm3 | 1.46 | ASTM D-792 |
| | Water Absorption | | | |
| | 24 hours | % | 0.43% | ASTM D-570 |
| | 48 hours | % | 0.43% | ASTM D-570 |
| Mechanical | Tensile Strength @ 75°F | psi | 9,500 | ASTM D-638 |
| | Tensile Modulus | psi | N/A | ASTM D-638 |
| | Tensile Elongation | % | 3.7% | ASTM D-638 |
| | Flexural Strength | psi | 18,000 | ASTM D-790 |
| | Flexural Modulus | psi | 590,000 | ASTM D-790 |
| | Izod Impact Strength | ft-lbs/in | 0.60 | ASTM D-256A |
| | Compressive Strength | psi | 22,000 | ASTM D-695 |
| | Hardness Shore D | | 89 | ASTM-D-785 |
| | Rockwell R | | 110 | ASTM-D-785 |
| Thermal | Temperature of Deflection | °F | 585 | ASTM D-648A |
| | Coefficient of Linear Expansion | in/in/°F | 2.2x10 ⁻⁵ | ASTM C- 518 |
| | Continuous Use Temperature | °F | 600 | ASTM D-696 |
| Electrical | Dielectric Strength Short Term | V/mil | N/A | ASTM D-149 |
| | Dissipation Factor | 10 ⁶ Hz | N/A | ASTM D-150 |
| | Dielectric Constant | 10 ⁶ Hz | N/A | ASTM D-150 |

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