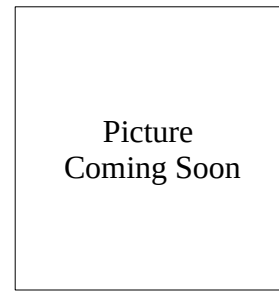


PRIMARY MFG

CE 221 DLS

Comparable to glass-filled nylon, CE221 is a stiff material with a high tensile modulus and impressive heat deflection temperature.



| Tensile Properties, ASTM D638 | | |
|---|--------------------------|---------------------------|
| | Metric | US. |
| Tensile Modulus | 3870 MPa | 561 KSI |
| Ultimate Tensile Strength | 92 MPa | 13 KSI |
| Elongation at Break | 3.3% | |
| Flexural Properties, ASTM D790-A | | |
| Flexural Modulus | 3780 MPa | 548 KSI |
| Flexural Strength | 131 MPa | 19 PSI |
| Impact Properties | | |
| Notched Izod, ASTM D256 | 15 J/m | 0.28 Ft-lbs/in |
| Unnotched Izod, ASTM D4812 | 291 J/m | 5.5 Ft-lbs/in |
| Thermal Properties | | |
| Heat Deflection, ASTM D648 | 231°C @0.45 MPa | 448°F @66PSI |
| | 201°C @1.82 MPa | 394°F @264 PSI |
| Coefficient of Thermal Expansion, ASTM E831 | 52 PPM/°C (-60, 100 °C) | 29 PPM/°F (-60, 100°C) |
| | 90 PPM/°C (100, 180 °C) | 50 PPM/°F (100, 180°C) |
| | 147 PPM/°C (180, 200 °C) | 82 PPM/°F (180, 200°C) |
| General Properties | | |
| Density, ASTM D792 | 1.210 g/cm ³ | 0.0437 lb/in ³ |
| Hardness, ASTM D2240 | 92 Shore D | |
| Water absorption, 23°C, 24 hours, ASTM D570 | 0.21% | |