

Process: FFF - Fused Filament Fabrication

PETG is a styrene free material created specifically for FFF 3D printing. This is a very tough and durable material with great mechanical properties. Applications of this material are for prototype parts and in some cases end use parts that are durable and functional.

| MECHANICAL PROPERTIES | TEST METHOD | METRIC | IMPERIAL |
|-------------------------------|-------------|----------------------|------------------|
| Tensile Stress at Yield | D 638 | 50 MPa | 7210 psi |
| Tensile Stress at Break | D 638 | 35 MPa | 6240 psi |
| Elongation at Yield | D 638 | 4.50% | 4.50% |
| Elongation at Break | D 638 | 193.00% | 193.00% |
| Flexural Strength | D 790 | 1800 MPa | 261 ksi |
| Flexural Modulus | D 790 | 67 MPa | 9719 psi |
| Izod Impact Strength, Notched | D 256 | 70 J/m | 1.3 ft lb/in |
| Hardness | Durometer | 105 R (Rockwell) | 105 R (Rockwell) |
| Colors | | Request Availability | |
| THERMAL PROPERTIES | TEST METHOD | METRIC | IMPERIAL |
| H.D.T. @ 0.455 Mpa (66 psi) | D 648 | 71 deg. C | 160 deg. F |
| H.D.T. @ 1.82 Mpa (264 psi) | D 648 | 63 deg. C | 145 deg. F |

Note: Materials specified are stocked materials, other materials may be available upon request. The information on the material properties are obtained from the material manufacture and SICAM expressly disclaims any product warranties and cannot guarantee the accuracy of the information presented.