



VeroClear

POLYJET TECHNOLOGY MATERIAL SPECIFICATIONS

Highlights

- Transparent, rigid and accurate
- High dimensional stability
- Produces excellent fine feature detail
- Quickly and economically produces parts
- Available in two Z resolutions
 - PolyJet: 30µm (0.00118")
 - PolyJet HD: 16µm (0.00063")

Applications

- Highly accurate presentation models
- Smaller parts with complex features
- Clear medical devices, casings and components for unique reveals
- Transparent electronic housings
- Suitable for a wide range of industries

TYPICAL PHYSICAL PROPERTIES

| MECHANICAL PROPERTIES | TEST METHOD | ENGLISH | METRIC |
|-----------------------------|---------------------|------------------------|-------------------|
| Color/Appearance | Visual | Transparent | Transparent |
| Tensile Strength | ASTM D638 | 7,250 - 9,450 psi | 50-65 MPa |
| Elongation at Break | ASTM D638 | 10% - 25% | 10% - 25% |
| Modulus of Elasticity | ASTM D638 | 290,000 - 435,000 psi | 2,000 - 3,000 MPa |
| Flexural Strength | ASTM D790 | 11,000 - 16,000 psi | 75 - 110 MPa |
| Flexural Modulus | ASTM D790 | 320,000 - 465,000 psi | 2,200 - 3,200 MPa |
| Izod Notched Impact | ASTM D256 | 0.375 - 0.562 ft-lb/in | 20 - 30 J/m |
| Shore D Hardness | - | 83 - 86 D | 83 - 86 D |
| Heat Deflection Temperature | ASTM D648 @ 264 psi | 113 - 122°F | 45 - 50°C |
| | @ 66 psi | 113 - 122°F | 45 - 50°C |

The information presented represents typical values intended for reference and comparison purposes only. It should not be used for design specifications or quality control purposes. End-use material performance can be impacted (+/-) by, but not limited to, part design, end-use conditions, test conditions, color etc. Actual values will vary with build conditions. Product specifications are subject to change without notice.

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