

Material Data Sheet: Z-PETG

| Physical Properties | Metric | English | Comments |
|---------------------|------------------------|----------------|-----------|
| Specific Gravity | 1.27 g/cm ³ | 10.598 lbs/gal | ASTM D792 |

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|--------------------------|--------|--------|-----------|
| Maximum Moisture Content | 0.013% | 0.013% | ASTM D570 |
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| Mechanical Properties | Metric | English | Comments |
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| Tensile Strength at Yield | 50 MPa Thickness 3.20 mm | 7252 psi Thickness 0.126 in | 50mm/min (2 inch/min); ASTM D638 |
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| Tensile Strength at Break | 29.4 MPa Thickness 3.20 mm | 4264 psi Thickness 0.126 in | 50mm/min (2 inch/min); ASTM D638 |
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| Elongation at Yield | 4.5 % | 4.5 % | 50mm/min (2 inch/min); ASTM D638 |
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| Elongation at Break | 180 % Thickness 3.20 mm | 180 % Thickness 0.126 in | 50mm/min (2 inch/min); ASTM D638 |
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| Flexural Strength | 68.6 MPa Thickness 3.20 mm | 9950 psi Thickness 0.126 in | 1.27mm/min (0.05 inch/min); ASTM D790 |
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| Flexural Modulus | 2.10 GPa Thickness 3.20 mm | 304 ksi Thickness 0.126 in | 1.27mm/min (0.05 inch/min); ASTM D790 |
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| Rockwell Hardness | 108 | 108 | ASTM D785 |
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| Izod Impact, Notched | 1.05 J/cm Thickness 3.20 mm, Temperature 23.0 °C | 1.97 ft-lb/in Thickness 0.126 in, Temperature 73.4 °F | ASTM D256 |
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| Thermal Properties | Metric | English | Comments |
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| Melting Point | 225 °C | 437 °F | ASTM D3418 |
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|-----------------------------|-----------------------|---------------------|-----------|
| Heat Distortion Temperature | 70 °C at 0.455 MPa | 158 °F at 66 psi | ASTM D648 |
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The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Final properties of the material can be impacted (+/-) by part design, end-use conditions, test conditions, etc. Actual values will vary with build conditions. Product specifications are subject to change without notice.

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