

# MATERIAL DATA SHEET



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## Material Data Sheet: Z-PETG

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cm <sup>3</sup>	10.598 lbs/gal	ASTM D792

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.

The performance characteristics of these materials may vary according to application, operating conditions, or end-use. Each user is responsible for determining that the Zortrax material is safe, lawful and technically suitable for the intended application, as well as for identifying the proper disposal (or recycling) method consistent with applicable environmental laws and regulations. Zortrax makes no warranties of any kind, express or implied including but not limited to the warranties of merchantability, fitness for a particular use.

## Contact

Office: [office@zortrax.com](mailto:office@zortrax.com)

Sales Department: [sales@zortrax.com](mailto:sales@zortrax.com)

Support Center: [support@zortrax.com](mailto:support@zortrax.com)

## Zortrax S.A.

Lubelska 34

10-409 Olsztyn, Poland

NIP: 7393864289

REGON: 281551179

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