

MATERIAL DATA SHEET



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Material Data Sheet: Z-GLASS

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cm ³	10.598 lbs/gal	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage, Flow	0.0040 - 0.010 cm/cm Thickness 3.20 mm	0.0040 - 0.010 in/in Thickness 0.126 in	ASTM D955
Light transmittance	75 - 90 % Wall thickness 0.4 mm	75 - 90 % Wall thickness 0.0157 in	ISO 13468-1
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength at Break	76.5 MPa Thickness 3.20 mm	11100 psi Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	4.0 % Thickness 3.20 mm	4.0 % Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	127 MPa Thickness 3.20 mm	18500 psi Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.12 GPa Thickness 3.20 mm	597 ksi Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.686 J/cm Thickness 3.20 mm, Temperature 23.0 °C	1.29 ft-lb/in Thickness 0.126 in, Temperature 73.4 °F	ASTM D256
Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	200 °C Thickness 6.40 mm	392 °F Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	180 °C Thickness 6.40 mm	356 °F Thickness 0.252 in	Unannealed; ASTM D648

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

Sales Department: sales@zortrax.com

Support Center: support@zortrax.com

Zortrax S.A.

Lubelska 34

10-409 Olsztyn, Poland

NIP: 7393864289

REGON: 281551179

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