

## Strong Heat-Resistant Polymer

Z-PEI 1010 is a blend of PEI slightly stronger than Z-PEI 9085 and with higher heat deflection temperature. The material can withstand temperatures reaching 208° C. It is also harder than Z-PEI 9085 which makes it perfect for scenarios where high rigidity is of paramount importance. Moreover, it offers broad chemical resistance to automotive fluids, fully halogenated hydrocarbons, alcohols, and aqueous solutions among others.

### Applications

- components with high rigidity,
- temperature resistant parts,
- chemically resistant parts.

Mechanical Properties	Metric	Imperial	Test Method
Tensile Strength	56 MPa	8120 psi	ISO 527
Tensile Modulus	2500 MPa	363 ksi	ISO 527
Tensile Elongation	3%	3%	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	2510 MPa	364 ksi	ISO 178
Thermal Properties	Metric	Imperial	Test Method
Glass Transition Temperature	217° C	423° F	DSC
Deflection Temperature	208° C at 0.45 MPa	406° F at 66 psi	ISO 75
Fire Testing*	Metric	Imperial	Test Method
Flamability Rating (*Base Resin)	V-0 @1.5mm	V-0 @1.5mm	UL 94
Other Properties	Metric	Imperial	Test Method
Density	1.27 g/cm <sup>3</sup>	10.6 lb/gal	ISO 1183

The data presented in this document are intended for information and comparison purposes only. They should not be used for project specifications or its quality evaluation. The material's actual properties depend on the printing process conditions, the design structure and its purpose, test conditions, etc.

Product specifications are subject to change without notice.

Each user is responsible for complying with product safety standards, its intended use as well as the law and waste disposal (and recycling) rules for electrical and electronic equipment. Zortrax does not make any express or implied warranties, including but not limited to implied warranties of merchantability or fitness for a particular purpose.

The Zortrax logo consists of the word "zortrax" in a bold, lowercase, sans-serif font. The letter "z" is significantly larger and more stylized than the other letters, with a thick vertical stroke and a horizontal top bar that extends to the left.

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