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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PolyFlex[™]

Technical Data Sheet

PolyFlexTM is a highly flexible yet easy to print 3D printing material. Featuring good elasticity and a large strain-to-failure, PolyFlexTM opens up a completely new realm of applications.

Physical Properties

	Property	Testing Method	Typical Value
	Density (g/cm ³ at 21.5 °C)	ASTM D792 (ISO 1183, GB/T 1033)	1.17 - 1.24
	Glass transition temperature (°C)	DSC, 10 °C/min	Not available
	Softening temperature of filament (for 1.75 mm; °C)	Custom method	Not available
Γ	Melt index (g/10 min)	210 °C, 1.2 kg	10 - 12
	Moisture content ¹ (%)	Thermogravimetric	≤ 0.1%
	Odor	/	Almost odorless
	Solubility	/	Insoluble in water
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Note:

1. For newly opened filaments; filaments may absorb higher levels of moisture during use.

Mechanical Properties¹

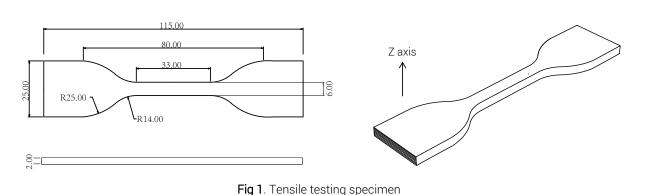
Property	Testing Method	Typical Value
Shore A hardness	ASTM D2240 (ISO 7619, GB/T 531)	~ 95A
100% modulus (MPa)	ASTM D412 (ISO 37, GB/T 528)	9.4 ± 0.3
Tensile strength (MPa)	ASTM D412 (ISO 37, GB/T 528)	29.0 ± 2.8
Elongation at break (%)	ASTM D412 (ISO 37, GB/T 528)	330.1 ± 14.9

Note:

1. All testing specimens were printed using a MakerBot Replicator 2 under the following conditions: Printing temperature = 225 °C, printing speed = 90 mm/s, number of shells = 2, and 100% infill.



Testing Geometries



Disclaimer

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. Enduse performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of Polymaker materials for the intended application. Polymaker makes no warranty of any kind, unless announced separately, to the fitness for any particular use or application. Polymaker shall not be made liable for any damage, injury or loss induced from the use of Polymaker materials in any particular application.