Product Description

The raw material for WillowFlex FX1504 is a unique elastomeric bioplastic with a diverse range of potential applications. The bioplastic is verified to meet U.S. (ASTM D6400) and E.U. (EN 13432) standards for compostability.

Processing Recommendations:

Drying: Resin must be dried before processing.
Drying Conditions: Out of a sealed box – 32° - 38°C (90° to 100° F) for 2 to 3 hours
Open Box – 38° - 50°C (100° to 120° F) for 4 to 5 hours

Recommended Printing Conditions: 175 – 185°C
50 – 70 mm/s

Processing at temperatures above 175° C and in combination with high shear conditions such as high injection speed may result in thermal degradation of this resin.

Custom Formulations:

Specific recommendation for processing WillowFlex FX1504 can be made based on customer equipment and processes. For further suggestions, please contact BioInspiration.

Physical Properties	Unit	Test Method	Value
Specific Gravity	g/cm^3	ASTM D792	1.23
Izod Impact	ft lb/in	ASTM D256	6.06
Tensile Strength	psi	ASTM D638	1,873
Tensile Modulus	psi	ASTM D638	16,097
Flex Strength	psi	ASTM D790	762
Flex Modulus	psi	ASTM D790	16,097
Melt Index (190°C & 2160g)	g/10min	ASTM D1238	41.9
Shrinkage (190°C & 2160g)	In/in	ASTM D1238	.0095

The information and recommendations in this sheet are based on our experience and analysis using standard procedures, and are believed to be accurate and reliable. However, they serve merely as typical guides, and are presented in good faith for the benefit of our customers. No guarantee, expressed or implied, is made regarding accuracy of the analysis, patent infringement, liabilities, or risks involved from the application of our products.