



Preliminary Product Data Sheet
deTerra™ XP 371 High Modulus Biobased Polymer
(30% glass fiber reinforced)

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

Material Property	Value*	Units	ASTM TEST
Specific Gravity	1.47	g/cm ³	
Melt Flow Rate @ 190 °C, / 2.16 kg	9 - 13	g/10 min	D 1238

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.03	ft-lbs/in	D 256
Un-notched	6.82		
Tensile Strength	11,200	psi	D 638
Tensile Elongation	2.1	%	D 638
Tensile Modulus	1,020,000	psi	D 638
Flexural Strength	18,700	psi	D 790
Flexural Modulus	943,000	psi	D 790

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	139	°F	D 648
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PROPERTY NOTES

Data herein is typical and not to be construed as specifications.
 Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

* Values per Interfacial Solutions company testing.

GENERAL PROCESSING CONDITIONS

	English	Units
Injection Pressure	medium	
Melt Temperature	330 - 380	°F
Mold Temperature	80 – 120	°F
Drying	2-4 hrs at 120°F	

PROCESSING NOTES

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a “trial and error” basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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