



Preliminary Product Data Sheet
deTerra™ XP 345 Biobased Polymer
Non-Halogenated Flame Retardant Grade (V-0)

Material Property	Value	Units	ASTM TEST
Specific Gravity	1.30	g/cm ³	
Melt Flow Rate @ 190 °C, / 2.16 kg	12 - 18	g/10 min	D 1238
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	.94	ft-lbs/in	D 256
unnotched 1/8 in (3.2 mm) section	11.98	ft-lbs/in	D 256
Tensile Strength	5,980	psi	D 638
Tensile Elongation	3.7	%	D 638
Tensile Modulus	478,000	psi	D 638
Flexural Strength	11,200	psi	D 790
Flexural Modulus	498,000	psi	D 790
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	134	°F	D 648
FLAMMABILITY			
Flammability	V-0		UL 94

* Above values per Interfacial Solutions laboratory testing of injection molded samples

Melt Temperature	310 - 355 °F
Die Temperature	310 - 340 °F
Drying	2-4 hrs @ 120 °F

Injection Molding Processing Conditions

Melt Temperature	330 - 365 °F
Mold Temperature	90 - 150 °F
Drying	2-4 hrs @ 120°F

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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