



**Product Data Sheet &
General Processing Conditions**

**RTP 2099 X 115375 C
Bio-Based Polylactic Acid (PLA)
PLA-PMMA Alloy
Transparent
39% Renewable Resource Content**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.21	1.21	D 792

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	6.0 ft-lbs/in	320 J/m	D 4812
Tensile Strength	10000 psi	69 MPa	D 638
Tensile Elongation	6.0 %	6.0 %	D 638
Tensile Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 638
Flexural Strength	17500 psi	121 MPa	D 790
Flexural Modulus	0.55 x 10 ⁶ psi	3792 MPa	D 790

THERMAL

Deflection Temperature			
@ 66 psi (455 kPa)	150 °F	66 °C	D 648
Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

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.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	8000 - 15000 psi	55 - 103 MPa
Melt Temperature	330 - 430 °F	166 - 221 °C
Mold Temperature	50 - 75 °F	10 - 24 °C
Drying	2 - 6 hrs @ 125 °F	2 - 6 hrs @ 52 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-40 °F	-40 °C