

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

		SI Metric	ASTM TEST
PERMANENCE	English		
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
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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.

PROPERTY NOTES

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
PROCESSING NOTES		

Desiccant Type Dryer Required.

For detailed processing information, see the PLA Molding Guide on the RTP Company website. www.rtpcompany.com/pla

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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.

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

^{**} Values per RTP Company testing.

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