

Product Data Sheet & General Processing Conditions

RTP 2099 X 126210 BLACK Bio-Based Polylactic Acid (PLA) PC-PLA Blend 32% Renewable Resource Content Additional 49% Post Consumer Content

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

			ASTM
PERMANENCE	English	SI Metric	TEST
Specific Gravity	1.20	1.20	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0040 - 0.0080 in/in	0.40 - 0.80 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	7500 psi	52 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Flexural Strength	12500 psi	86 MPa	D 790
Flexural Modulus	0.37 x 10^6 psi	2551 MPa	D 790
THERMAL			
Deflection Temperature			
@ 264 psi (1820 kPa)	155 °F	68 °C	D 648
@ 66 psi (455 kPa)	255 °F	124 °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
		FF 400 MD-
Injection Pressure	8000 - 15000 psi	55 - 103 MPa
Melt Temperature	430 - 470 °F	221 - 243 °C
Mold Temperature	75 - 160 °F	24 - 71 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °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

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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RTP COMPANY • 580 EAST FRONT STREET • WINONA, MN 55987 • 507-454-6900