

Product Data Sheet & General Processing Conditions

RTP 2099 X 124790 C
Bio-Based Polylactic Acid (PLA)
Impact Modified
Mineral
Standard Nucleator
78% Renewable Resource Content

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

English	SI Metric	TEST
40.07		
10 %	10 %	
1.28	1.28	D 792
1.5 ft-lbs/in	80 J/m	D 256
15.0 ft-lbs/in	801 J/m	D 4812
6500 psi	45 MPa	D 638
8.0 %	8.0 %	D 638
11000 psi	76 MPa	D 790
0.60 x 10^6 psi	4137 MPa	D 790
180 °F	82 °C	D 648
	1.5 ft-lbs/in 15.0 ft-lbs/in 6500 psi 8.0 % 11000 psi 0.60 x 10^6 psi	1.5 ft-lbs/in 80 J/m 15.0 ft-lbs/in 801 J/m 6500 psi 45 MPa 8.0 % 8.0 % 11000 psi 76 MPa 0.60 x 10^6 psi 4137 MPa

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.

GENERAL PROCESSING FOR INJECTION MOLDING

English	SI Metric	
8000 - 15000 psi	55 - 103 MPa	
340 - 380 °F	171 - 193 °C	
180 - 220 °F	82 - 104 °C	
2 - 6 hrs @ 130 °F	2 - 6 hrs @ 54 °C	
0.02 %	0.02 %	
-40 °F	-40 °C	
-40 1	-40 C	
	8000 - 15000 psi 340 - 380 °F 180 - 220 °F 2 - 6 hrs @ 130 °F 0.02 %	8000 - 15000 psi 55 - 103 MPa 340 - 380 °F 171 - 193 °C 180 - 220 °F 82 - 104 °C 2 - 6 hrs @ 130 °F 2 - 6 hrs @ 54 °C 0.02 % 0.02 %

PROCESSING NOTES

Desiccant Type Dryer Required.

Nucleated for high heat exposure. For detailed processing information regarding this, 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.

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