

# Anti Hydrolysis PLA

## Polymer Data Sheet

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# Anti Hydrolysis PLA

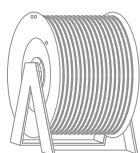
## Polymer Data Sheet

IDENTIFICATION	VALUE
Raw Material	Bio-Based PLA Compound [ > 80% produced from renewable materials ]

PHISICAL PROPERTIES	CONDITIONS	STANDARD	UM	VALUE
Density	23° C	ISO 1183	g/cm <sup>3</sup>	1,30
Melt Flow Index	230° C/2,16 Kg	ISO 1133	g/10 min	30
Ashes	RT	INTERNAL	%	9

THERMAL PROPERTIES	CONDITIONS	STANDARD	UM	VALUE
Melting Temperature	10° C/min	ISO 11357-3	°C	178
Glass Transition Temperature	10° C/min	ISO 11357-2	°C	49
Heat Distortion Temperature	0,45 MPa	ISO 75	°C	55 ( untreated ) 115 ( annealed )

MECHANICAL PROPERTIES	CONDITIONS	STANDARD	UM	VALUE
Tensile Yield Strength	50 mm/min	ISO 527-2	MPa	-
Tensile Strength at Break	50 mm/min	ISO 527-2	MPa	26
Elongation at Break	50 mm/min	ISO 527-2	%	>3
Tensile Modulus	50 mm/min	ISO 527-1	MPa	3500
Flexural Modulus	10 mm/min	ISO 178	MPa	2750
Notched IZOD	RT	ISO 180/1A	KJ/m <sup>2</sup>	-
Notched CHARPY	RT	ISO 179/1eA	KJ/m <sup>2</sup>	14



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### SECTION 1. PRODUCT INFORMATION & COMPLIANCE

**The Bio-Based PLA compound used for filament production has been tested by accredited laboratory according to:**

#### 1.1 PRODUCT INFORMATION

Ideal for components that require high resistance to hydrolysis and UV rays. Post-processing annealing in sand is suggested. Suitable for fast sanding processes.

#### 1.2 COMPLIANCE

REACH: **compliant**

ROHS: **compliant**

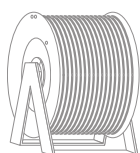
FOOD CONTACT: **non-compliant**

### SECTION 2. DISCLAIMER

#### 2.1 NOTE

Disclaimer: The information contained in this document cannot be considered as a specification. All the data reported are based on our current knowledge and are considered accurate and reliable even if not guaranteed in any way. RIGENERA di Sfrecola Cosimo Damiano assumes no responsibility for damage to persons or property due to incorrect information in this document. RIGENERA di Sfrecola Cosimo Damiano reserves the right to update this document at any time, resulting in the expiry of any previous version of this document.

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