

# P023J: 100% Bio-based engineering grade

Property	Test Condition	Typical values	Unit
Melt Flow Rate	190°C, 10kg 2 mm die	≥5.0	g/10min
Density		≥1.31	g/cm <sup>3</sup>
Flexural Strength		≥95	MPa
Flexural Modulus	23°C, 50%	≥6,000	MPa
Flexural Elongation		≥1.5	%
Charpy impact, unnotched		≥12.5	kJ/m <sup>2</sup>
Charpy impact, notched	23 °C, 50%	≥2.0	kJ/m <sup>2</sup>

## GG P023J

Fully bio-based engineering grade. Granules made from PLA and natural fibres, which combines ultra high stiffness and ultra high strength with moderate impact strength. Suitable for production of complex articles with long flow paths and thin walls. Excellent processability, good surface finishing, easy to mix with bio-based colour masterbatches. Typical markets are within toys-, consumer articles-, construction- and rigid packaging applications.

## Contact us for advice

It is not always easy to select the grade which most fit to your product specs. Our [experts](#) have a long tradition in polymer material properties, bio-plastics and how to process these into products. Please [contact](#) us for further help, or mail us: [info@greengran.com](mailto:info@greengran.com).

