

# the tough guy

- TFF02015 -

Food-safe and versatile, our rugged tough guy is made from 97% bio-based materials, pumped up with a few extra supplements for those hard knocks and finicky applications.

**good,  
natured**  
better everyday products

## good natured Products Inc.

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## The Deets

- Made from over 97% annually renewable, plant-based materials per ASTM D6866 testing
- Extra strong impact resistance for everyday packaging
- Crystal clear transparency showcases package contents
- Higher rigidity and lower density than PET
- Readily supports deep draw designs
- Recyclable

## Typical Material Properties(\*)

Physical Properties	TFF02015	ASTM Method
Specific Gravity	1.24	D792
Haze, 18 mils, %	7	D1003
Luminous Transmittance, 18 mils, %	93	D1003
Mechanical Properties		
Ultimate Tensile Strength, psi (MPa)	8 200 (57)	D882
Tensile Modulus, psi (MPa)	390 000 (2 700)	D882
Elongation Modulus, %	8.4	D882
Gardner Impact Resistance, 18 mils, MFE, lbf.in (J)	5.7 (0.64)	D5420

Note: TFF02015 shrinkage is comparable to PET.

(\*) Typical properties; not to be construed as specification limits.