



Greener Polymers Bio Composite Materials

**PRODUCT DATA SHEET**

**Product Reference: EcoVid - 30GBTFH**

**Description**

**EcoVid-30GBTFH** is a General Purpose Ingeo PLA and bio-composite material blend suitable for Thermoforming processes with a High Heat resistance index. The material, rated for 178F/80°C and could be frozen to -32°C. Mould crystallization will increase the heat deflection from 80°C to 110°C+ depending on the application.

**Applications**

**Composition:** Ingeo PLA content with bio-degradable and HDT additives.

**Applications:** **EcoVid-30GBTFH** is a heat resistant blend for single use thermoformed disposable food trays, packaging inserts, clamshells, platters, etc.

For additional information and properties associated with particular applications please refer to Customer and Technical Services [info@greenerpolymers.com](mailto:info@greenerpolymers.com).

**Typical Properties**

<b>Physical</b>	<b>Nominal Values</b>	<b>Test Method(s)</b>
Density	1.27 gr/cc	ASTM D792
Melt Flow Rate	6gr/10 min/(190°C/2.16kg)	ASTM D1238
Vapour Barrier Transmission rate	20.1636 (sd +/- 0.3537)	ASTM E380
Oxygen Permeability	53.481 (sd +/- 0.249)	ASTM E380

  

<b>Thermal</b>	<b>Nominal Values</b>	<b>Test Method</b>
Melting Point (DSC)	130-180°C	ASTM D3418
Vicat Softening Point	130°C	ASTM D1525

**Physical Properties**

Specific gravity	1.27		D792
Melt flow 6g/10 min (210C. 2.16Kg)	6		D1238
Relative viscosity	2.5		
Crystalline melt temperature	155 - 170		D3418
Glass transition temperature	55-60		D3418
Clarity	NIL		

<b>Mechanical Properties</b>			
Tensile yield strength.psi (Mpa)	9,000(62)		D638
Tensile elongation %	3.5		D638
Notched izod impact ft-lb/in (j/m)	0.3(16)		D256
Flexural Strength (Mpa)	(15,700) 108		D790
Heat distortion temperature	80 - 110C+		E2092

<b>Processing Guidelines</b>	
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<b>ZONE</b>	<b>Temperature Settings C</b>
Feed Throat	145 - 155°C
Feed Section	145 - 165°C
Compression Section	165 - 195°C
Metering Section	165 - 195°C
Die	165 - 180°C°
Screw Speed	35 -65 rpm
Back pressure	150 – 400 psi
Mould Shrinkage	0.004 in/in ± 0.001
Mould Cycle Time	19-35 secs

**Safety and Handling** A Product Safety Bulletin/Material Data Safety Sheet is available from your Greener Polymers representative.

**Please refer to Material Safety Data Sheet before using this product.**

**Customer Service:** Greener Polymers Inc, Email: info @greenerpolymers.com  
Tel: +44 (0)1492 550305 (UK)

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Temperatures are provided as a guideline and may need to be adjusted according to specific equipment and loading percentages.

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